Starrett®

PRECISION, QUALITY, INNOVATION

SR300 AND SR400 - SURFACE ROUGHNESS TESTER

USER GUIDE

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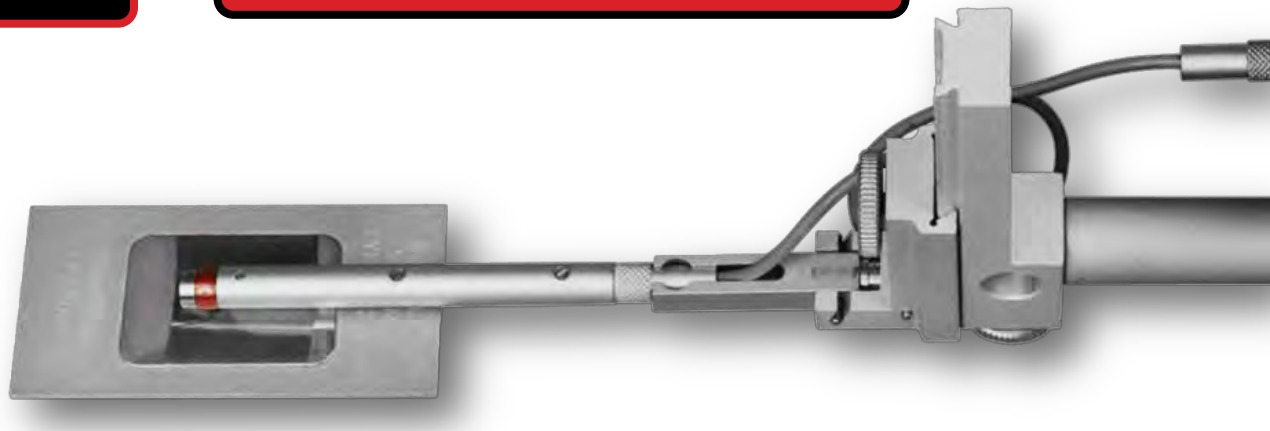


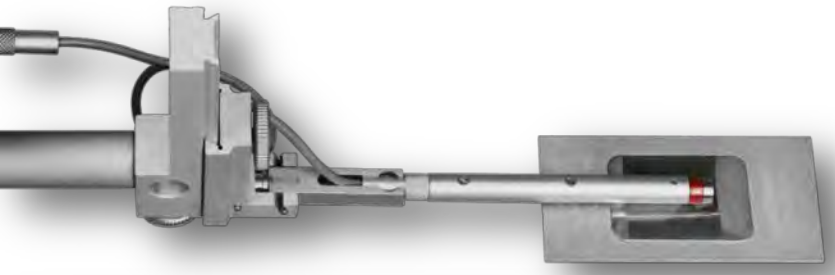
SR300 AND SR400 OVERVIEW

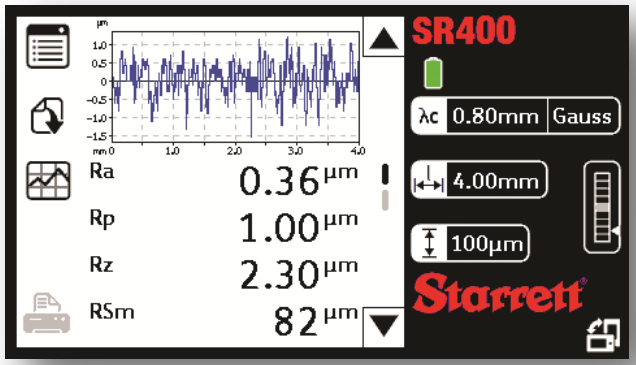
SR300 and SR400 Surface Roughness Tester

These new editions of Starrett Surface Roughness Testers incorporate a large display with the simplest of menu structures and the most up-to-date parameters. Their mechanical rigidity and styli have a firm reputation for reliable and repeatable surface finish measurements across a wide range of applications.

The SR Surface Roughness Tester comes in two variants: the SR300 is our standard offering, while the SR400 offers extended measurement range and analysis capability.

The SR300 and 400 are battery powered and offers total portability with a built-in memory capacity (holds up to 100 readings). The instrument can be used either freestanding (on horizontal, vertical or even inverted surfaces) or with bench mounted fixtures for batch measurement and laboratory applications.





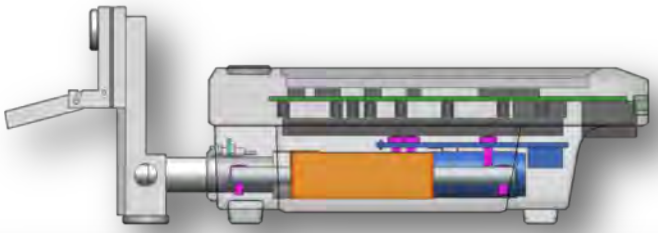
SR300 and SR400 Surface Roughness Tester

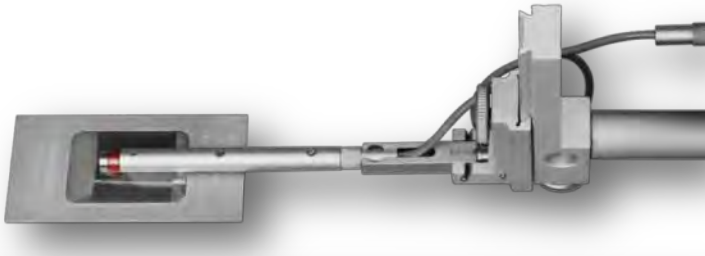
Durable

- **High impact rubberized molding IP44 rated**
- **Recessed, Mylar protected high durability touch screen**
- **Solid steel drive mechanism**
- **Robust anti-wear gears and bearings**
- **Heavy-duty Li-Poly battery**
  - 2000 measurements
  - 5000 hours standby

Versatile

- **Unique 50mm stylus lift/lower**
  - Simple setup on any surface
- **Multiple pickups available**
  - Small bore, groove, o-ring, etc.
- **Measure in any orientation**
  - Even upside down
- **Evaluation length up to 25mm**
- **Anti-slip V-feet for flat or curved parts**

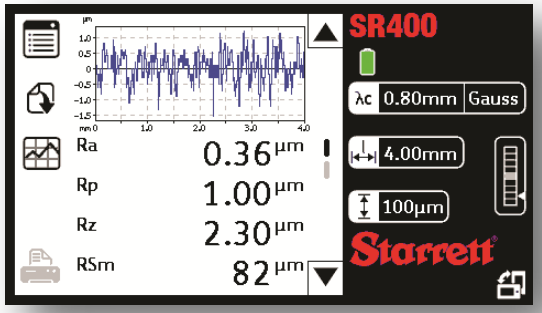




SR300 and SR400 Surface Roughness Tester

User-Friendly

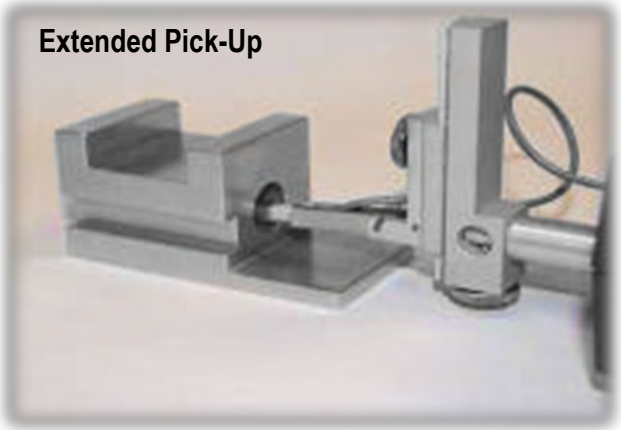
- **4.3” daylight readable display**
- **Operation in any orientation**
  - Settings always on display
- **Colour touch screen interface**
  - Up to 7 results on each page
- **Single button measurement**
- **InstantOn™ < 1 second restart**

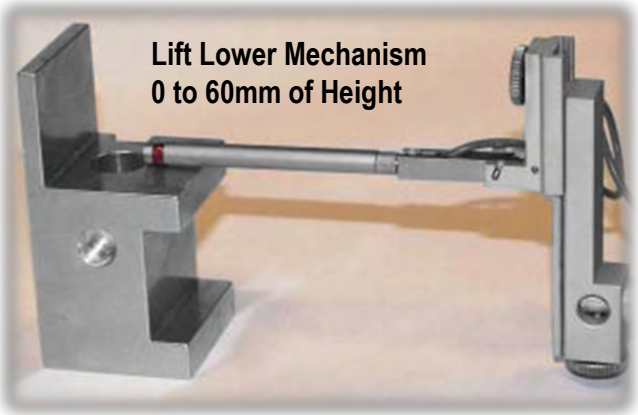


Connectivity

- **Standard USB Charging (PC or Mains)**
- **Storage of results internal or USB key**
  - 100 internal, >10,000 on USB
- **USB to PC for advanced analysis**
  - Includes free Talyprofile software
- **USB remote Settings and Measurement**
- **Standard USB Printing (ESC/POS)**

SR300 and SR400 Surface Roughness Tester

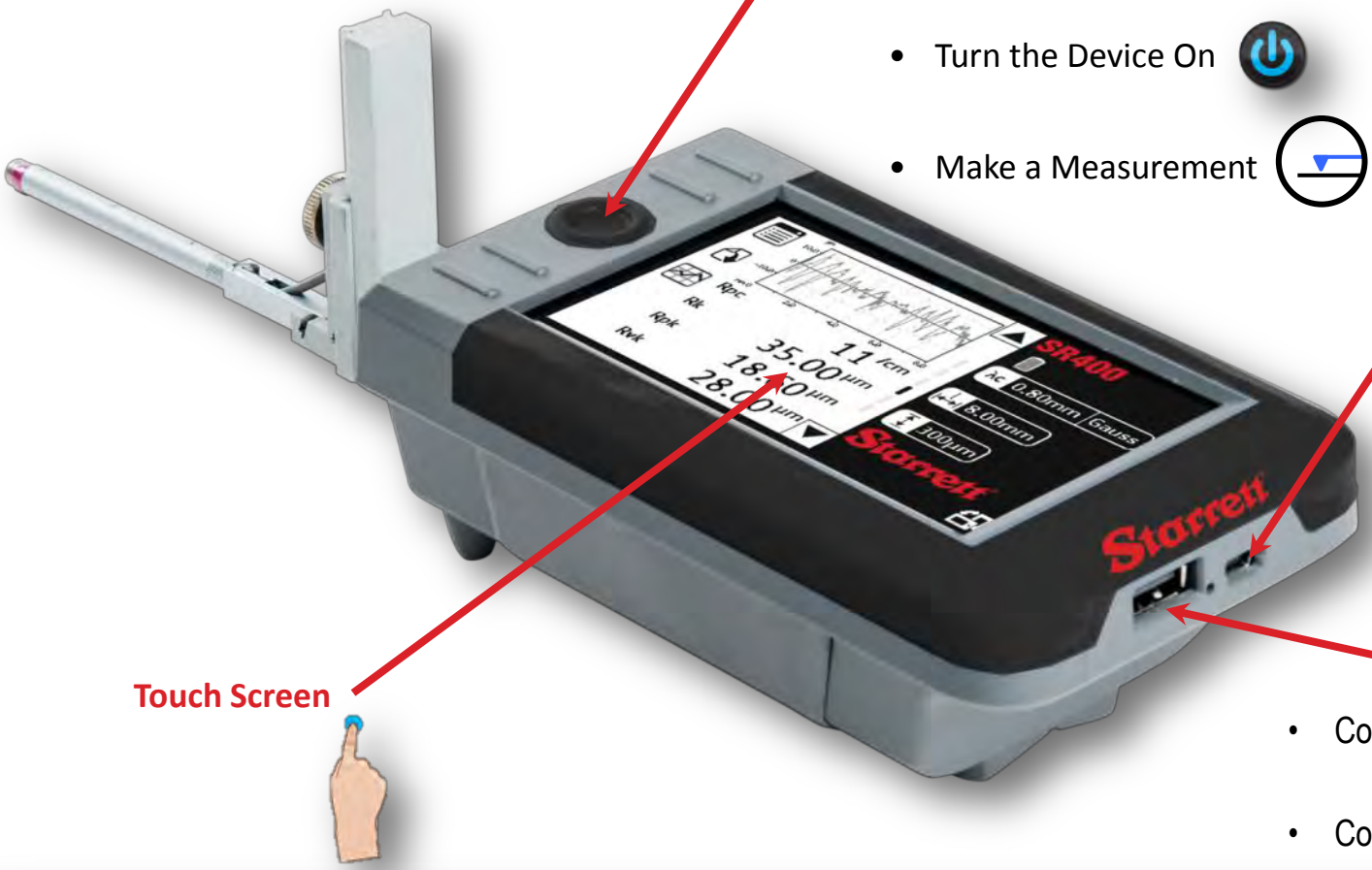




Built in Memory
as Standard

Traverse Length = 25mm

SR300 and SR400 Surface Roughness Tester



Function Button

- Turn the Device On
- Make a Measurement

USB Mini Port

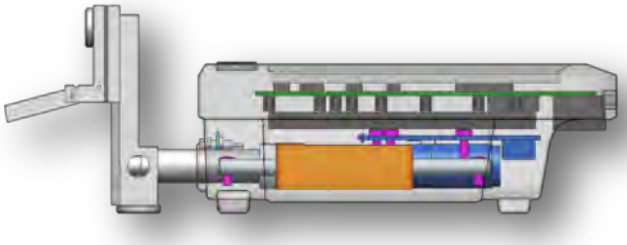
- Connect to PC
- Charge Device

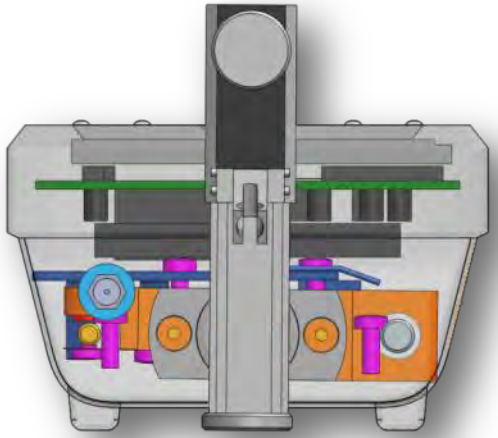
USB Type A Port

- Connect Printer
- Connect External Memory

Touch Screen

SR300 and SR400 Surface Roughness Tester





- Parameter Options to Suit Your Application
- Fast Measurement Cycle
- Intuitive Menu Structure
- Unique Stylus Lift Mechanism for Total Flexibility
- Long Traverse Length and Extended Pick-Up Reach
- Comprehensive Range of Accessory and Pick-Up Options
- Storage of Up to 100 Readings
- Powerful Software Option
- World Class Technical Support

INSTRUMENT OVERVIEW

Parameter Options to Suit Your Application

The SR300/SR400 can calculate up to 22 parameters according to your measurement application including:

Amplitude Parameters

Measures the vertical characteristics of the surface deviations:

- **Ra** (Arithmetic Mean Deviation)
- **Rsk** (Skewness)
- **Rz** (Average peak to valley height)
- **Rt** (Total height of profile)
- **Rp** (Max profile peak height)
- **Rz1max** (Max peak to valley height)

Spacing Parameters

Measures the horizontal characteristics of the surface deviations:

- **RPc** (Peak count)
- **RSm** (Mean width of profile elements)

Hybrid Parameters

Combinations of spacing and amplitude parameters:

- **Rmr** (Material Ratio)
- **Rda - R Delta a** (Arithmetic Mean Slope)

The above parameters cover the most common requirements to check lubrication, feed rates, stresses, friction and wear properties.

Additional parameters can be analysed with the addition of Talyprofile software.

Instrument Overview

Fast Measurement Cycle

The SR300/SR400 incorporates the latest electronics for very fast analysis - results are calculated and displayed even before the traverse unit returns. This fast processing, combined with intuitive menu buttons, greatly reduces measurement cycles.

Powerful Software Options

The SR300/SR400 includes Type A USB and USB mini ports which allow connection to a printer or exportation of results to a PC for further analysis using the optional Talyprofile software. By setting the SR300/SR400 to 'Data Dump' mode, measurements can be instigated directly from the Talyprofile software.

Intuitive Menu Structure

The SR300/SR400 incorporates a large LCD screen which allows full menu and measurement results to be displayed. Using only two buttons the user can scroll through the menus and make selections intuitively before pressing the MEASURE key. All selections are saved for future measurements. All the measurement criteria and results are displayed clearly on the screen ready to print or export to a PC.

Unique Stylus Lift Mechanism

The SR300/SR400 has a uniquely engineered stylus lift mechanism which allows a vertical adjustment of 50mm and rotation of the pick-up to different measuring positions, including right angle or inverted measurements. These adjustments to the height and position of the gauge allow areas and features of a part to be easily measured without additional fixtures. This feature saves the operator a huge amount of set up time and allows total flexibility. Typical applications where the stylus lift is invaluable include the measurement of steps, bores, grooves and lands.

Built-in Memory/Storage

No PC or printer cables in your way while you measure – the SR300/SR400 is now truly portable: Take your surface roughness tester wherever you need to take measurements, save as many batch readings as you need (max 100 measurements) then download to your PC or printer at your convenience.

External Memory

Storage is expandable with a standard USB stick. The 4 GB USB stick provided with the unit is capable of storing over 64,000 screen shots and/or measurements

Long Traverse Length and Extended Pick-Up Reach

The SR300/SR400 can traverse up to 25mm (or as little as 0.25mm) depending on your component. In addition, the stylus length and pick-up configuration give a long reach, making it an ideal instrument for features such as large and narrow bores. Optional extension rods extend the pick-up further.

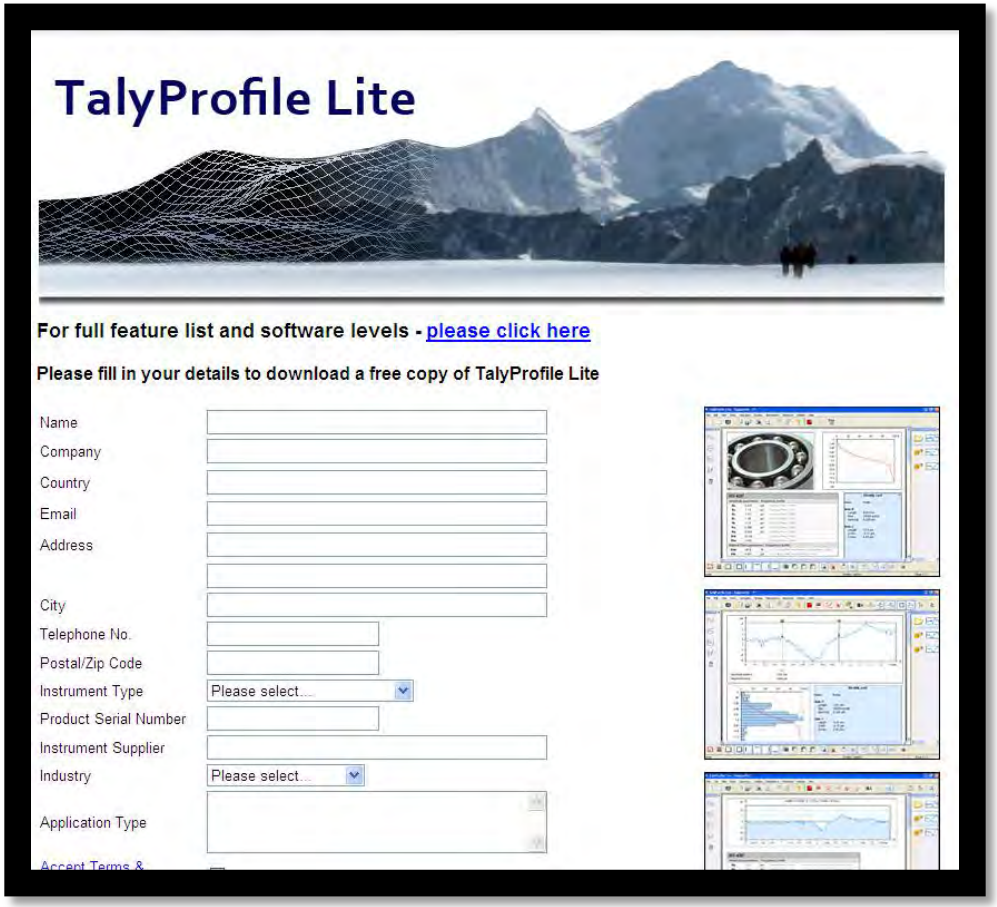
Comprehensive Range of Accessories and Pick-Ups

Starrett has developed an extensive range of pick-ups and accessories to suit the varied measurement needs of our customers. In addition to the pick-ups shown on page 6 our applications department regularly designs and manufactures pick-ups and fixtures for specific requirements.

TALYPROFILE

Advanced Surface Finish Analysis

Talyprofile is a dedicated software package designed for use with workshop or laboratory instruments.



Three versions are available:

- Talyprofile "**Silver**" has all functions typically used for a shop floor inspection.
- Talyprofile "**Gold**" has complete laboratory analysis functions.
- Talyprofile "**Lite**" is a free download, available from 'talyprofile.com'
    - Click the button below to open the website.

Talyprofile.com

Talyprofile

General Features		Gold	Silver	Lite	Modules		
Acquisition interface for workshop profilers		✓	✓	✓			
Basic set of file formats		✓	✓				
Can be used without USB dongle	V6	✓	✓	✓			
Desktop publishing and template document		✓	✓	✓			STA
File formats of 2D profilers		✓	✓				
Manage parametric profiles	V6	⇨			CT	ACT	
Management of non-measured points		⇨			CT	ACT	
Minidocs	V5	✓	✓				
Series of profiles enabled		✓	✓				
Statistics enabled	V5	⇨	⇨				STA
Table of results	V5	⇨				ACT	
Template of document on all data of a folder		✓	✓				STA
Third party plug-ins		✓					
Tolerance limits (pass/fail)		✓	✓				

Key	
✓	Included
⇨	Available in Optional Module(s)
STA	Statistics
CT	Contour
ACT	Advanced Contour

Talyprofile

Interface		Gold	Silver	Lite	Modules		
Analysis workflow	V5	✓					
Document pages viewer	V5	✓	✓	✓			
File explorer and favorite folders	V5	✓	✓				
Interactive bank of studiables		✓	✓	✓			
Languages: EN, FR, DE, ES, IT, PL, JP, CH, KR		✓	✓	✓			
Masterpages	V5	✓	✓				

Operators on Profiles		Gold	Silver	Lite	Modules		
Filtering		✓					
Filtering by direct edition of the FFT		✓					
Filtering by threshold of the FFT	V5	✓					
Form removal		✓					
Join two profiles		✓					
Leveling		✓	✓	✓			
Resampling		✓					
Retouch profile points		✓					
Symmetries		✓	✓	✓			
Thresholding		✓					
Zoom		✓	✓	✓			

Key	
✓	Included
⇨	Available in Optional Module(s)
STA	Statistics
CT	Contour
ACT	Advanced Contour

Talyprofile

Studies on Profiles		Gold	Silver	Lite	Modules		
Abbott-Firestone curve/depth distribution		✓	✓	✓			
Advanced options in contour analysis	V6	⇨				ACT	
Area of a hole/peak		✓	✓				
Averaged power spectrum density		✓					
Contour analysis		⇨			CT	ACT	
Distance measurement		✓	✓	✓			
Fractal analysis		✓					
Frequency Spectrum		✓					
Graphical study of Rk parameters		✓					
Morphological envelopes		✓					
Profile curve		✓	✓	✓			
Profile parameters study		✓	✓	✓			
R&W motifs (ISO 12085)		✓					
Rk calculation profiles		✓					
Roughness and waviness profile curves		✓	✓	✓			
Step height measurement		✓					
Waviness parameters of groups A and/or B		✓	✓				

Key	
✓	Included
⇨	Available in Optional Module(s)
STA	Statistics
CT	Contour
ACT	Advanced Contour

Talyprofile

Parameters	Gold	Silver	Lite	Modules		
2D (P+R) parameters, Group A: ISO 4287	✓	✓	✓			
2D (P+R) parameters, Group B: old parameters	✓					
2D parameters, Group C: automotive	✓					

Operators on Series of Profiles	Gold	Silver	Lite	Modules		
Profile extraction	✓	✓				

Studies on Series of Profiles	Gold	Silver	Lite	Modules		
Profile curves of the series	✓	✓				

Key	
✓	Included
⇨	Available in Optional Module(s)
STA	Statistics
CT	Contour
ACT	Advanced Contour

Talyprofile

Operators on Surfaces	Gold	Silver	Lite	Modules		
Profile extraction	✓	✓				

Studies on Surfaces	Gold	Silver	Lite	Modules		
Pseudo-color image	✓	✓				

Studies of the Statistical Module		Gold	Silver	Lite	Modules		
Box plot	V5	⇨	⇨				STA
Histogram	V5	⇨	⇨				STA
Scatter plot	V5	⇨	⇨				STA
Table of statistical parameters	V5	⇨	⇨				STA
Trend plot	V5	⇨	⇨				STA

Key	
✓	Included
⇨	Available in Optional Module(s)
STA	Statistics
CT	Contour
ACT	Advanced Contour

Talyprofile

Time-Saving Templates

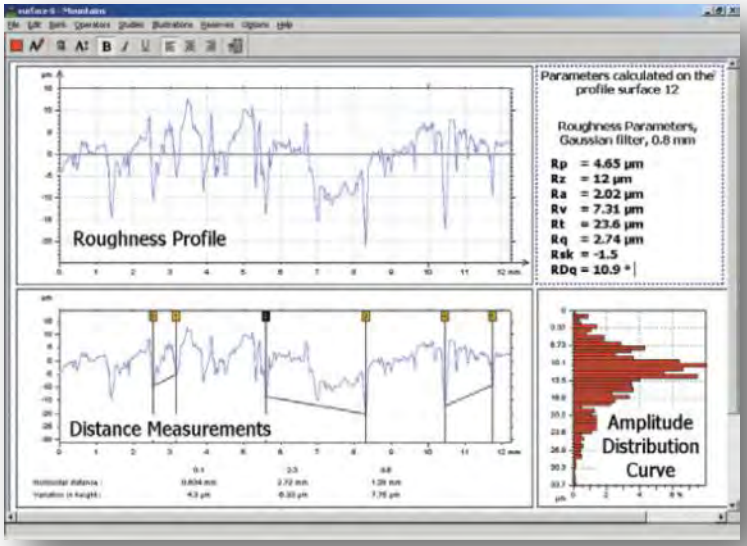
A 'template' can be created whereby a sequence of analytical functions can be saved and applied to future measurements, turning detailed reporting tasks into routine documents.

Desktop Publishing Facility

Talyprofile offers a comprehensive desk top publishing function which allows professional presentation of measurement results and profiles. Graphs, profiles and results can be arranged and printed from within the Talyprofile software or copied into other word-processing documents giving complete flexibility in reporting.

Full Compatibility

Surface finish results from other Starrett surface roughness instruments can be imported to Talyprofile software, allowing a uniform report style to be used throughout your workshop or laboratory.



Talyprofile Parameters

Roughness Parameters

Obtained by Filtering: **Ra, Rq, Rt, Rp, Ry, Rku, Rsk, RSm, Rz, RΔq, RTp, RHTp, Rlo, Rλq, RPC, RzJIS, R3z.**

Waviness Parameters

Obtained by Filtering: **Wa, Wq, Wt,Wp, Wv, Wku, Wsk, WSm, Wz, WzJIS, Wλq, WΔq, WTp, WHTp, WLo, WPC, W3z.**

(only with Gold version and instruments with straightness datum)

Parameters on the Raw Profile

Unfiltered: **Pa, Pq, Pt, Pp, Pv, Pku, Psk, PSm, Pz, PΔq, Pλq, PTp, PHTp, PLo, PPc.**

Parameters Obtained by Double Filtering

DIN 4776: **Rk, Rpk, Rvk, MR1, MR2, A1, A2, Rvk.**

(only with Gold version)

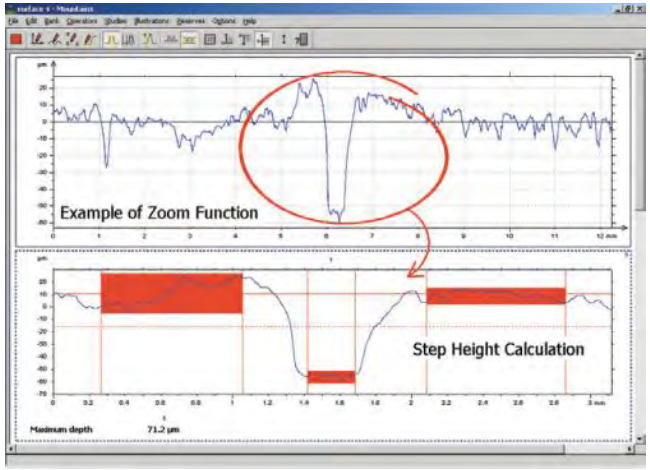
Parameters Obtained by the Motifs Method

"R&W": **R, AR, Pt, Rx, SR, SAR, Nr, Kr, W, AW, Wte, Wx, SW, SAW, Nw, Kw, Rke, Rpke, Rvke, Trc, HTrc.**

(only with Gold version

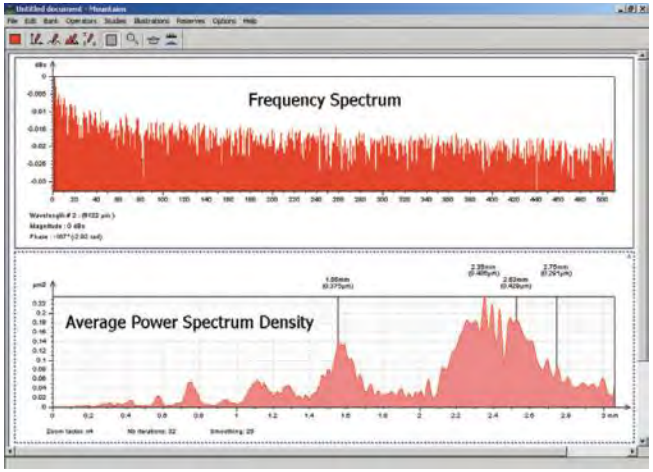
Outstanding Graphics

The software is visually advanced and provides clear on screen profile images. Talyprofile allows the user to take a basic measurement and create a full measurement report using the software's detailed analysis options and desktop publishing function



In Depth Analysis

Profiles can be levelled and zoomed to remove unwanted features or defects from the analysis. Distance measurement between features and areas of a profile are easily implemented and the information can be displayed graphically and numerically. Step height and the area of a hole or peak can also be displayed.



SR300 AND SR400 ACCESSORIES

USB Thermal Printer

Cat. No. SR-112-4570

Compact and highspeed 60mm (24in)/second. Includes USB lead and International Power Supply Outputs settings, results, and high resolution graph.

SR300 and SR400 Accessories

Support Stand

Cat. No. SR-112-1517

With 4 degrees of freedom. Max measuring height of 430 mm and a range of 115 mm at a horizontal reach of 305–420 mm.

Column and Stand

Cat. No. SR-112-2693

Granite base (400 x 250 mm) with manually operated column providing adjustment height of 260 mm

Extension Rod

Cat. No. SR-112-1510 (200mm length)

Provides extension to pick-up for measurements in deep holes. Longer extension rods can be made to order.

Plug Adaptors

Cat. No. SR-112-4545

International USB charger

- 5V 1A 110-240VAC
- 50/60Hz

Recharges SR300/SR400 in 4 hours.

Height Transfer Gage

Cat. No. 252Z-14

Clamp

Part No. PT99560

Clamp to attach SR300 and SR400 to
252 Height Transfer Gage

PICK-UPS

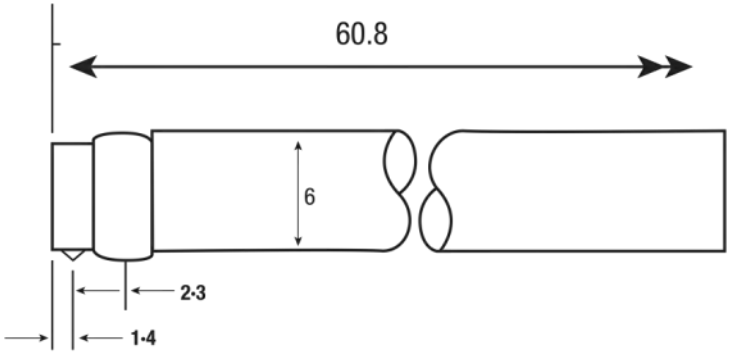
Pick-Ups

Starrett has developed an extensive range of pick-ups to suit the varied measurement needs of our customers. In addition to the pick-ups shown below our applications department regularly design and manufacture pick-ups for specific requirements.

Standard Pick-Up

Cat. No. SR-112-1502

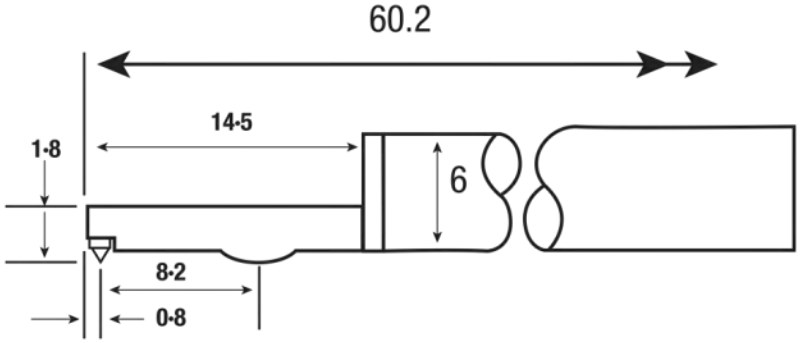
For general surface roughness measurement. Also available with 10µm (400µin) tip radius. (code 112-1503)



Small Bore Pick-Up

Cat. No. SR-155-P28495

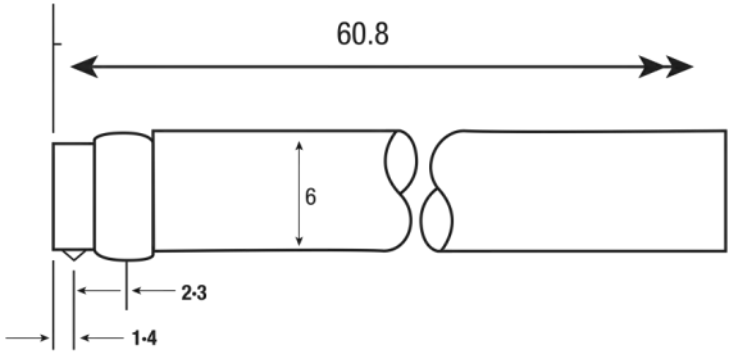
For general use in small bores, grooves and on narrow surfaces.



Right Angle Pick-Up

Cat. No. SR-112-1505

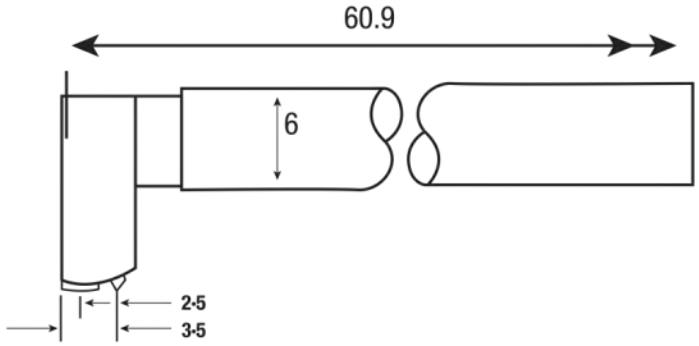
For measurement at right angles to the direction of traverse.



Recess Pick-Up

Cat. No. SR-112-1506

For recesses to a depth of 5.7mm (0.23in). A 2µm tip radius version is available (code 112-2672). (Also available for 25mm depth.)



Technical Specifications and Dimensions

SYSTEM INFORMATION

Technical Specifications

Technical		SR300	SR400
Languages	Basic	English, French, German, Italian, Spanish	
	Extended		
	Asian		
Data Output	On-Screen	Up to 7 results per page, selectable on-screen graph with XZ axis	
	Printer	Output settings, results and high resolution profile graph	
	PC Connection	Full data analysis with Talyprofile	
Data Storage	Internal	100 measurement results, 1 raw profile	
	USB (4GB supplied)	>39,000 raw profiles, up to 100,000 results per batch (>70 batches)	
	PC Connection	Unlimited data storage	
SPC/Stats	Internal	Optional	Min, Max, Mean, StdDev of stored results
	USB (4B supplied)	Optional	ASCII export o fall results for SPC
	PC Connection	Full SPC and tolerancing of all parameters using Talyprofile software	
Battery	Charger	USB 5v 1A 110-240VAC 50/60Hz	
	Charging Time	4 hours	
	Battery Life	2,000 measurements	
	Standby Time	5,000 hours	
	InstantOn	Max 1 sec from standby to ready to measure	
	Auto Sleep Function	30 sec – 6 hours	

Technical Specifications

Component Capacity		SR300	SR400
Physical Specifications	Weight Including Pickup	0.5Kg (1.1lbs)	
	IP Rating	None	IP43
	Power Source	Li Poly rechargeable battery	
Operating Conditions	Temperature	5 - 40°C (41-104°F)	
	Humidity	0 -80% non-condensing	
Storage Conditions	Temperature	0 -50°C (32 - 122°F)	
	Humidity	0 – 90% non-condensing	

Dimensions

Measurement Capability		SR300	SR400
Gage	Range	200µm, 100µm, 10µm	400µm, 100µm, 10µm
	Resolution	100nm, 20nm, 10nm	50nm, 10nm, 5nm
	Noise Floor (Ra)	250nm, 150nm, 100nm	150nm, 100nm, 50nm
	Repeatability (Ra)	1% of value + noise	0.5% of value + noise
	Pickup Type	Inductive	
	Gage Force	150 – 300mg	
	Stylus Tip Radius	5µm (200µin default/2µm (80µm) or 10µm (400µm) optional	
	Measurement Type	Skidded	
Calibration	Process	Automated software calibration routine	
	Standards	Able to calibrate to ISO 4287 roughness standards	
Analysis	Filter Cut-Off	0.25mm/0.8mm/2.5mm	
	Filter Type	2CR/Gaussian	
	Evaluation Length	0.25mm – 12.5mm (0.01in - 0.49in)	0.25mm – 25.0mm (0.01in – 0.98in)
	Max X Axis Range	17.5mm	25.5mm
Speed	Measuring Speed	1mm/sec (0.04in/sec)	
	Returning Speed	1.5mm/sec (0.06in/sec)	

Dimensions

Analysis Capability		SR300	SR400
Parameters	Standards	ISO 4287, ISO 13565-1, ISO 13565-2, ASME 46.1, JIS 0601, N31007	
	ISO Basics	Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdq, RSm, Rz1max	
	ISO Advanced	Optional	Rk, A1, A2, Mr1, Mr2, Rpk, Rvk
	ASME	Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rdq, RSm, Rpm, Rda	
	JIS	Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdq, RSm, RzJIS, Rc, Rku, Rdc	
	Other	R3z (Daimler Benz)	
	ISO Primary	Optional	Pa, Pv, Pp, Pz, Pt, Psk, Pmr, Pdq, Ppc, PSm, Pz1max
	Units	µm/µin	

OTHER STARRETT PRODUCTS

Other Starrett Products

SR100 – Surface Roughness Tester

(Roughness only)

The SR100 measures Ra or Rz at the touch of a button and shows the result on a large LCD window.

Optional additional parameters Rp, Rv and Rt can be displayed and units of measure switched between inch and metric without re-measuring the part.

- Skidded pick-up with 5µm (200µin) stylus tip.
- 0.8mm (0.03in) cut-off.
- Self-contained, battery operation for shop floor use.

Other Starrett Products

RT800

The RT800 is robust enough for the shop floor but accurate for any inspection area, giving a flexible solution for all roundness and form measurements.

- Patented gage orientation
- Robust enough for 24/7 operation
- Easy-to-use touchscreen software

RT500

The RT500 has the same robust construction as the RT800, but with a few less features and is economically priced.

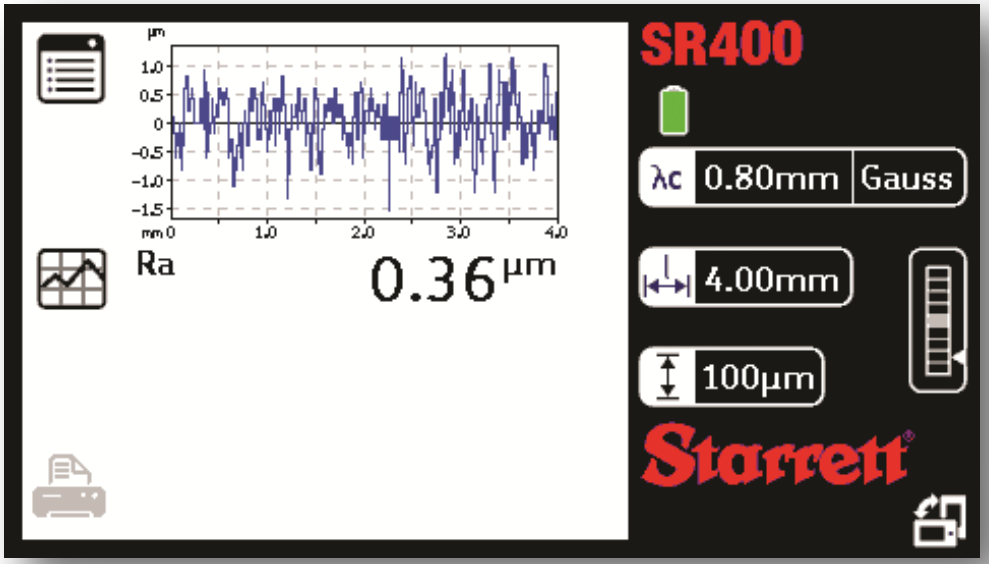
INSTRUCTION MENU

Instruction Menu

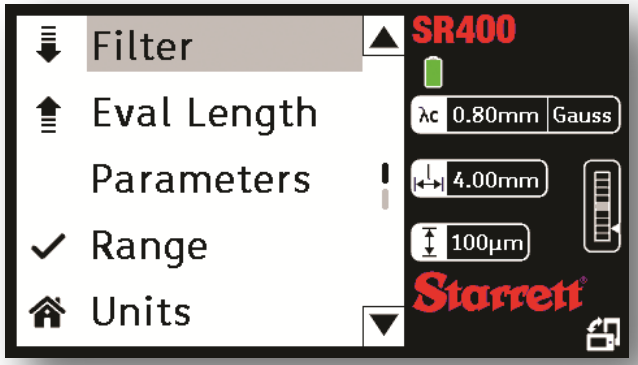
Menu	Device Icons	Graph	Battery	Brightness
Internal Memory	External Memory	Rotate	Screen Shot	Battery Level
Calibration	Calibration Value	Calibration Filter	Calibration Settings	Stylus Return
Cut-Off	Filter Type	Measurement Length	Range	Set Zero
Parameters	Parameter Settings	Units	Storage	
New Batch	Keyboard	View Batch	Delete Batch	
Print Batch	Print	Language	Sleep Timer	

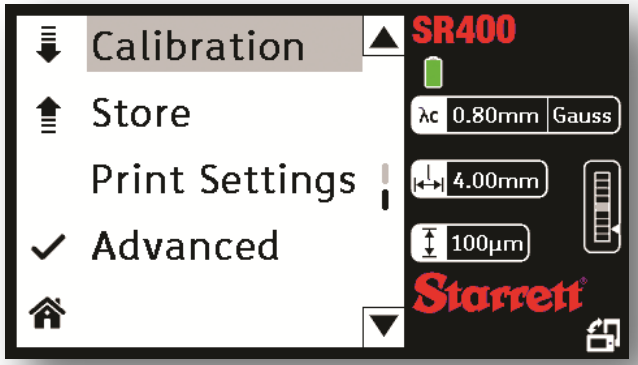
Menu

Tap the “Menu” icon in the left-hand corner.



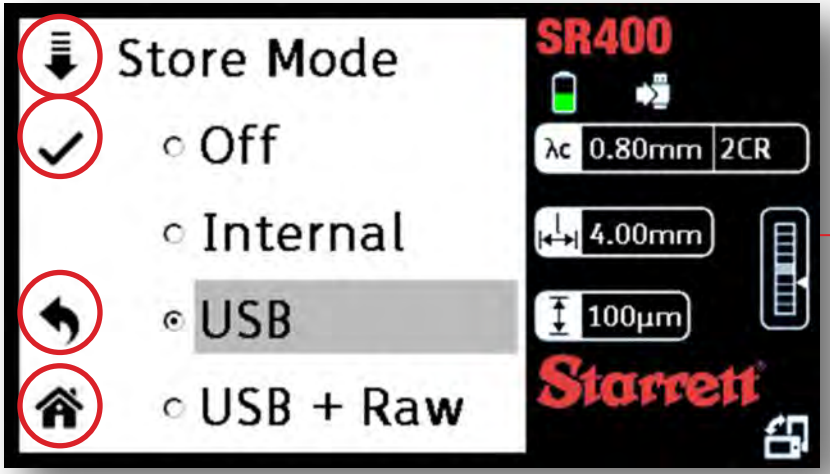
Tap the “Down Arrow” to scroll down through the menu.





Instructions

Instruction Menu



Tap the ‘Arrow’ icon to move down to the next item in a list.

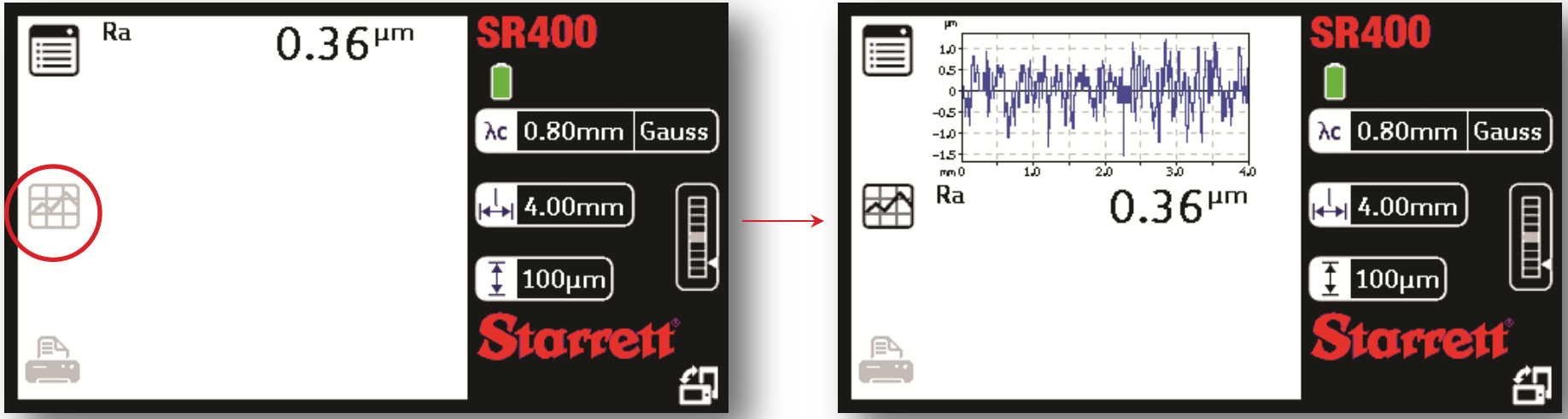
Tap the ‘Tick’ icon to confirm your selection or data input.

Tap the ‘Return’ icon to return to the previous screen.

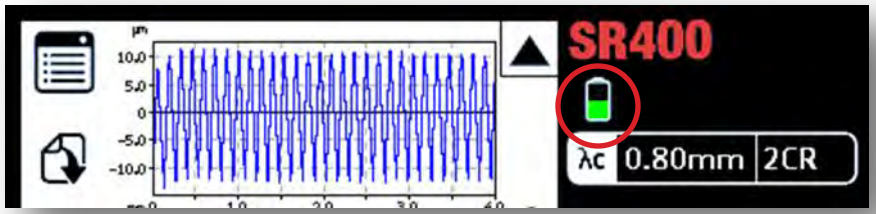
Tap the ‘Home’ icon to return to the Home screen.

Graph

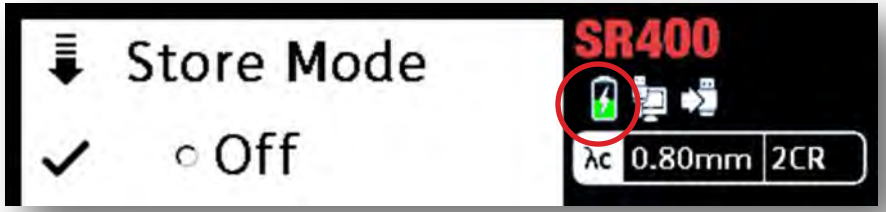
Tap the “Graph” icon on the left-hand side of the screen to view a graph of your measurement.



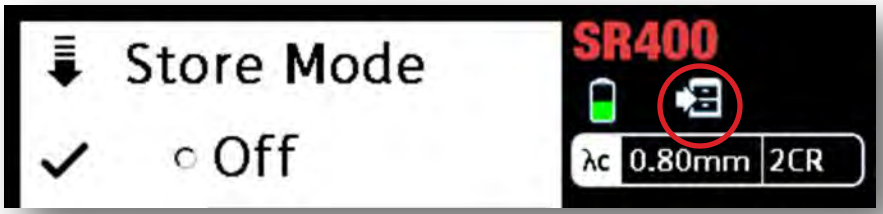
Battery
This icon indicates the SR300/SR400 current Battery life.



This icon indicates that the SR300/SR400's battery is charging.



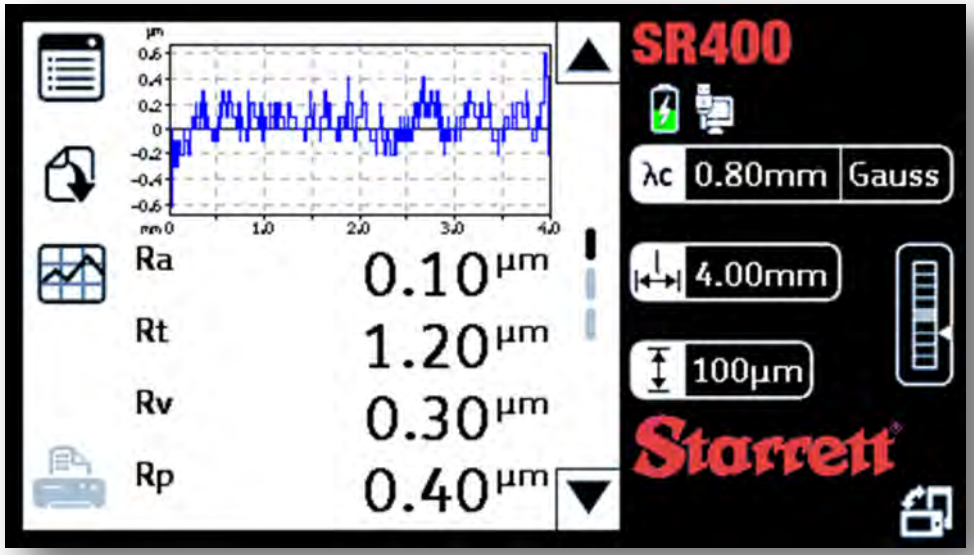
Internal Memory
This icon indicates that the data is saved to internal memory.

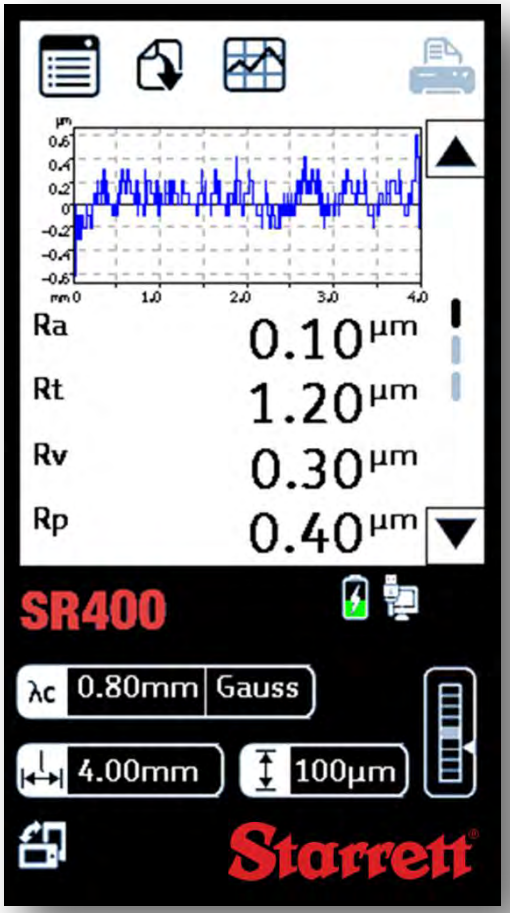


External Memory
This icon indicates that the data is saved to an external memory source.

Rotate

Tap the “Rotate” icon to rotate the screen between landscape and portrait mode.

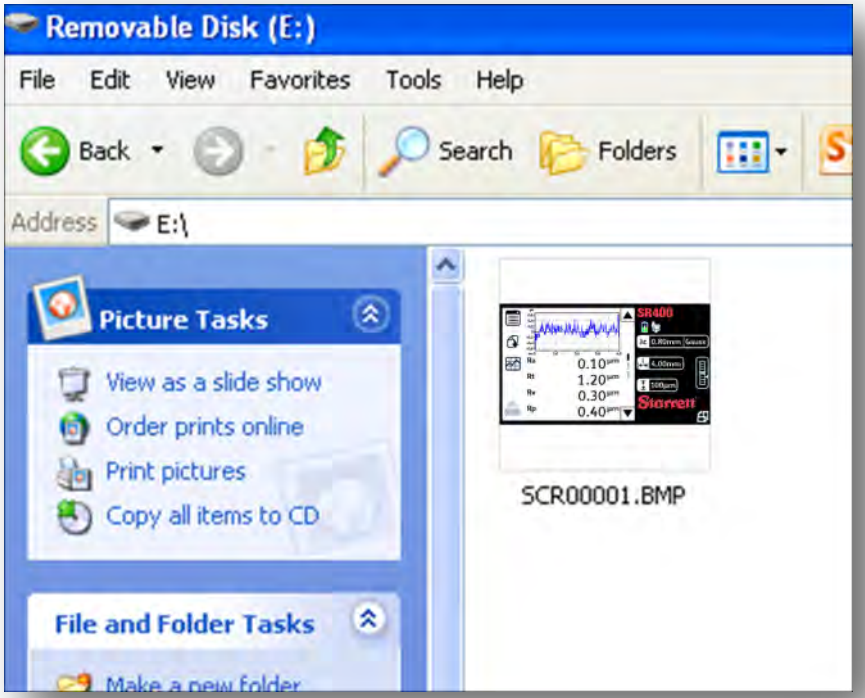




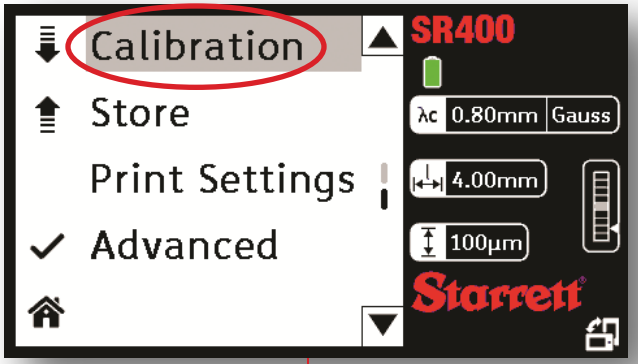
Rotate

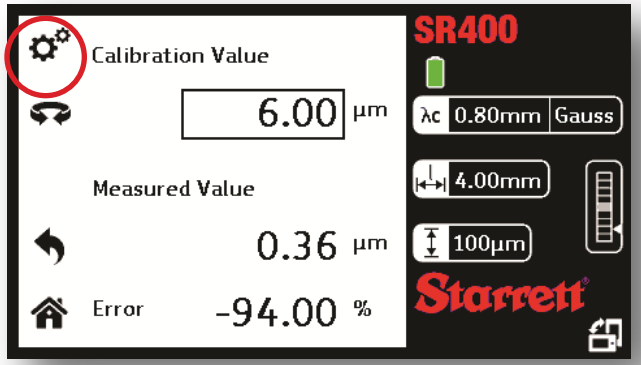
Tap “Starrett” icon to take a screen shot of the device.

The screen shot saved to the external USB drive.

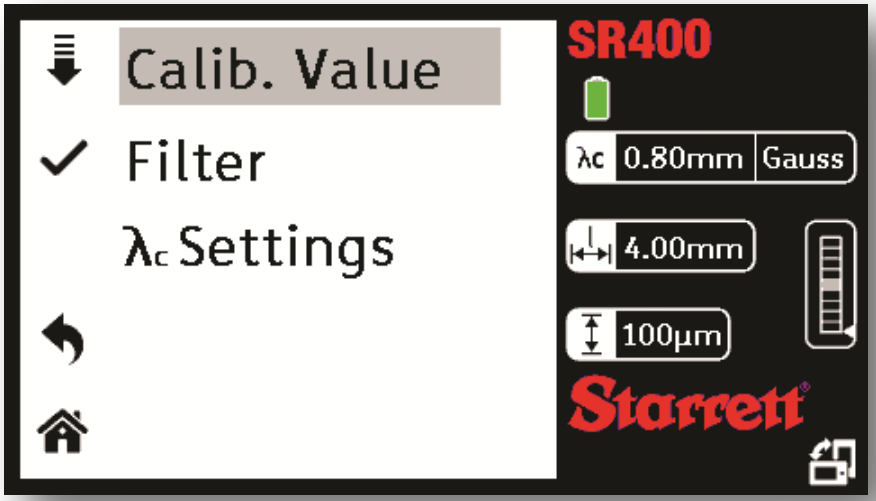


Calibration



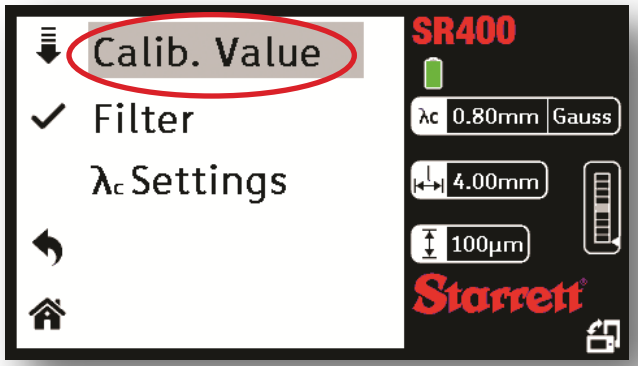


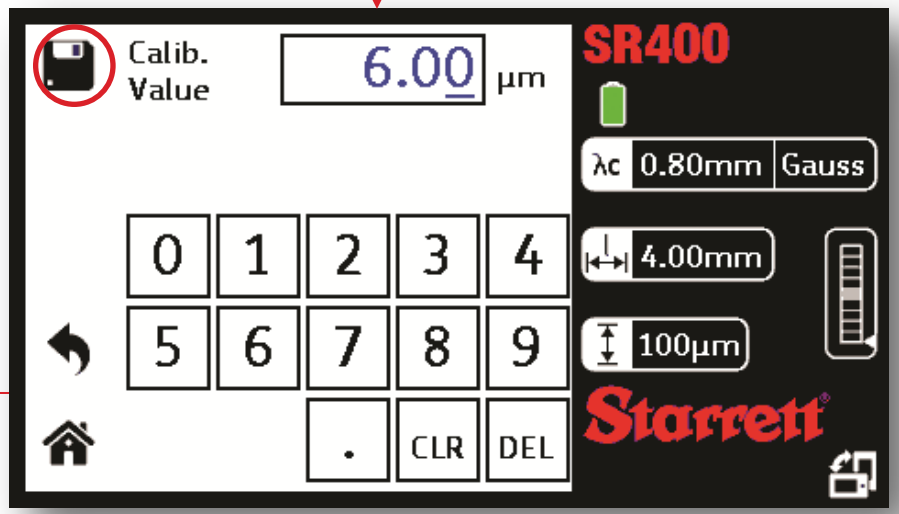
Tap 'Calibration' and then the 'Settings' icon to see a list of calibration options.

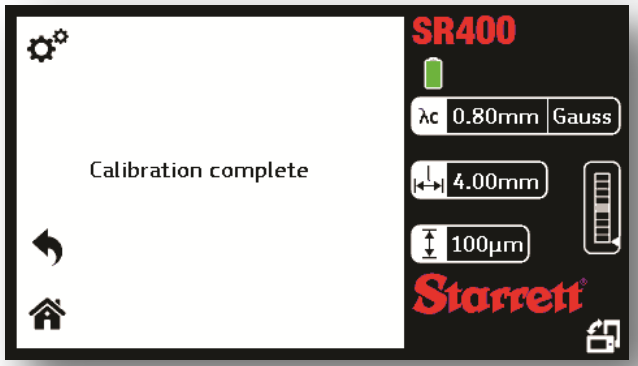


Calibration Value

Tap ‘Calib. Value” and enter the value you require.
Tap the “Save” icon to save the calibration value.

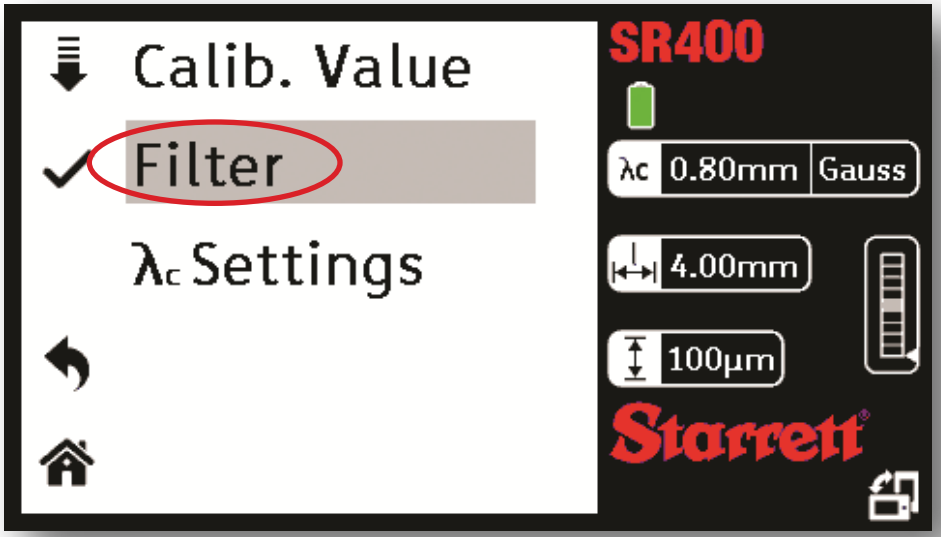


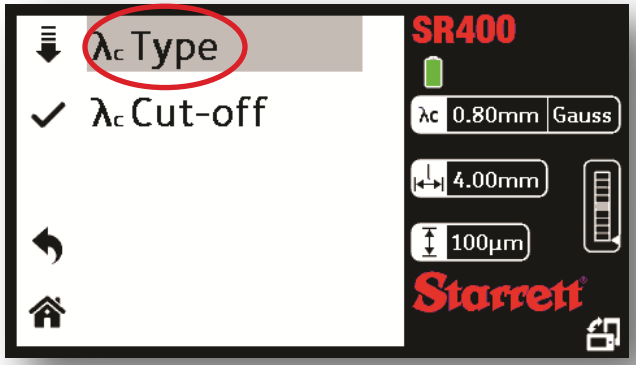


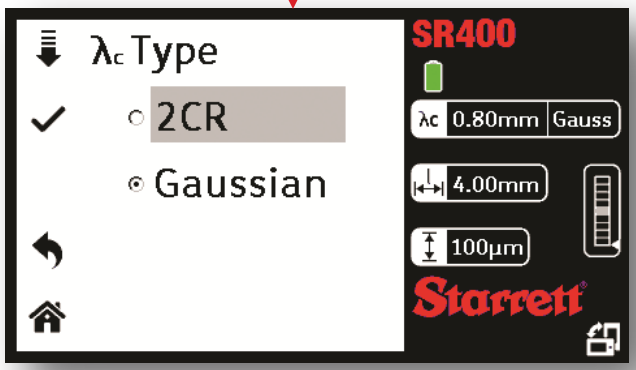


Calibration Filter - Type

Tap “Filter” and then “Type” to select your required filter option.

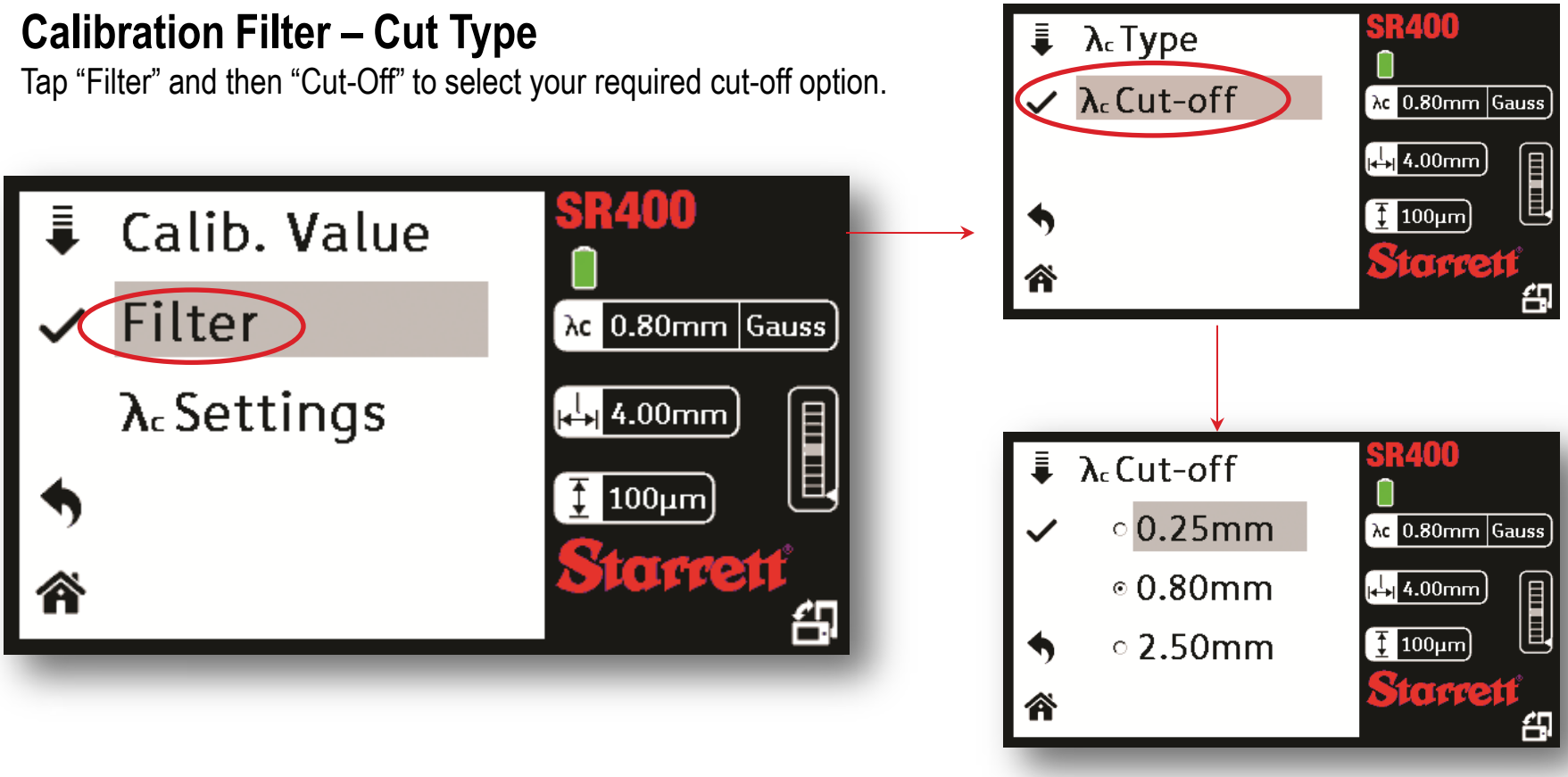






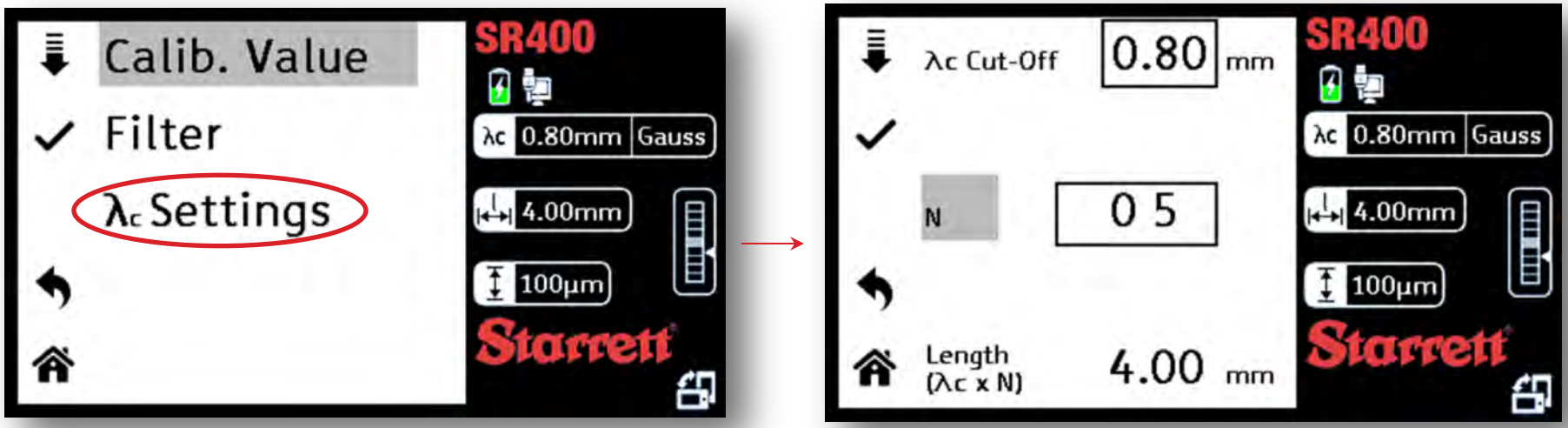
Calibration Filter – Cut Type

Tap “Filter” and then “Cut-Off” to select your required cut-off option.



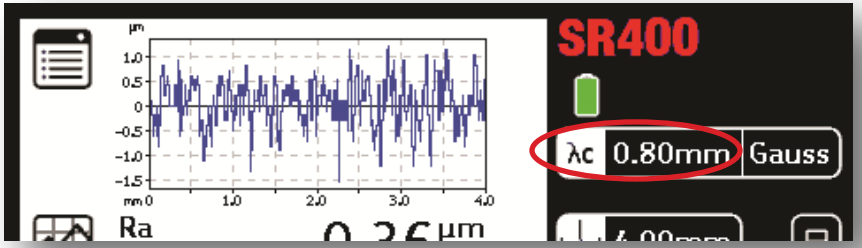
Calibration Settings

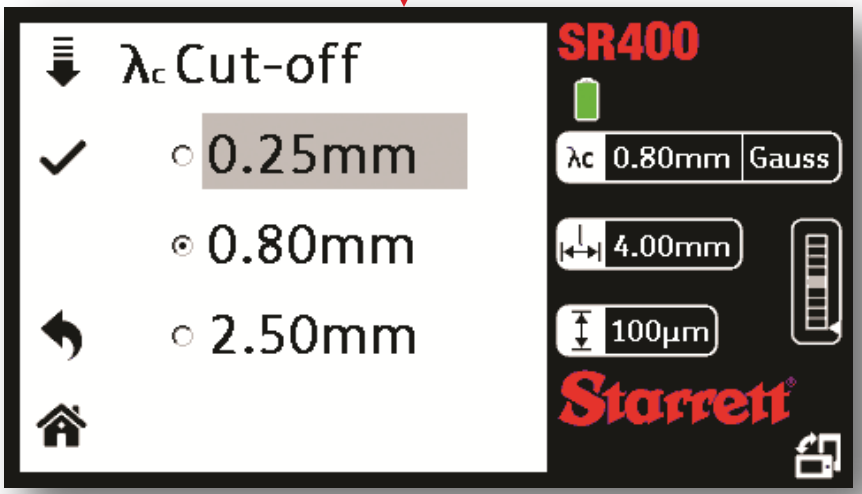
Tap “Settings” to enter your required calibration options.



Cut-Off

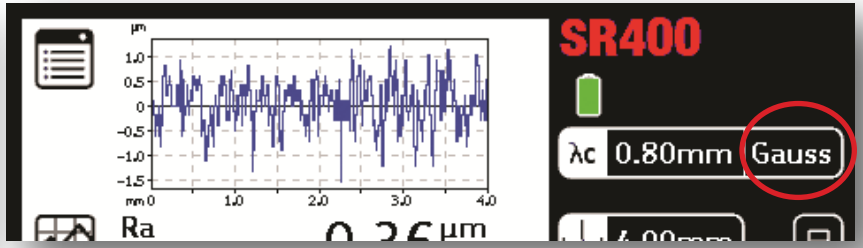
Tap the “Cut-off” icon to edit the length.

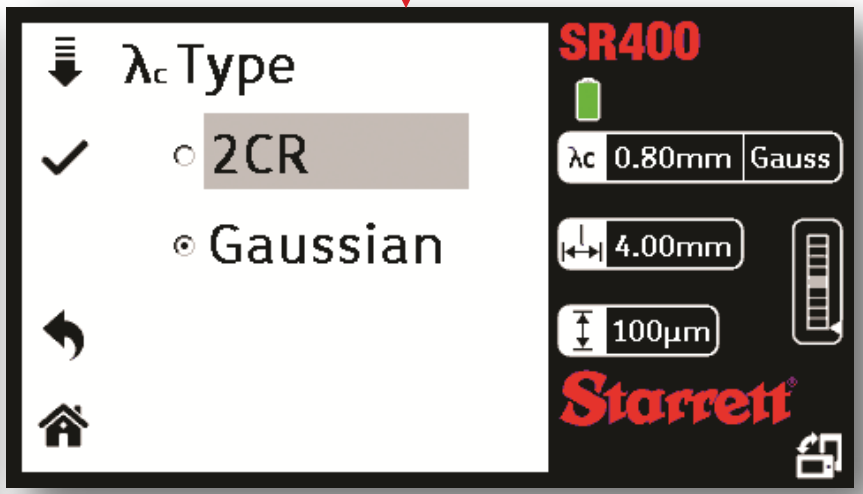




Filter Type

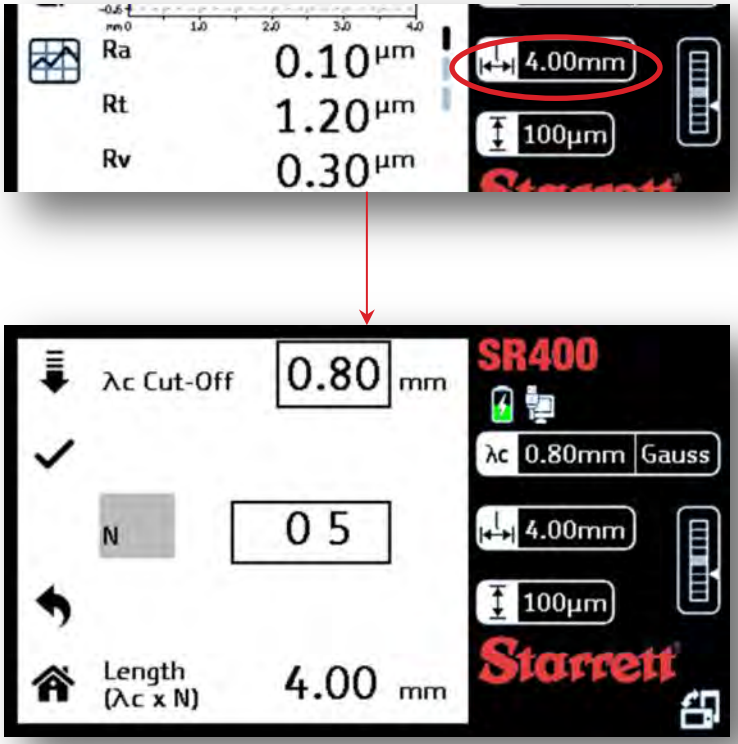
Tap the “Filter” icon to edit the type.





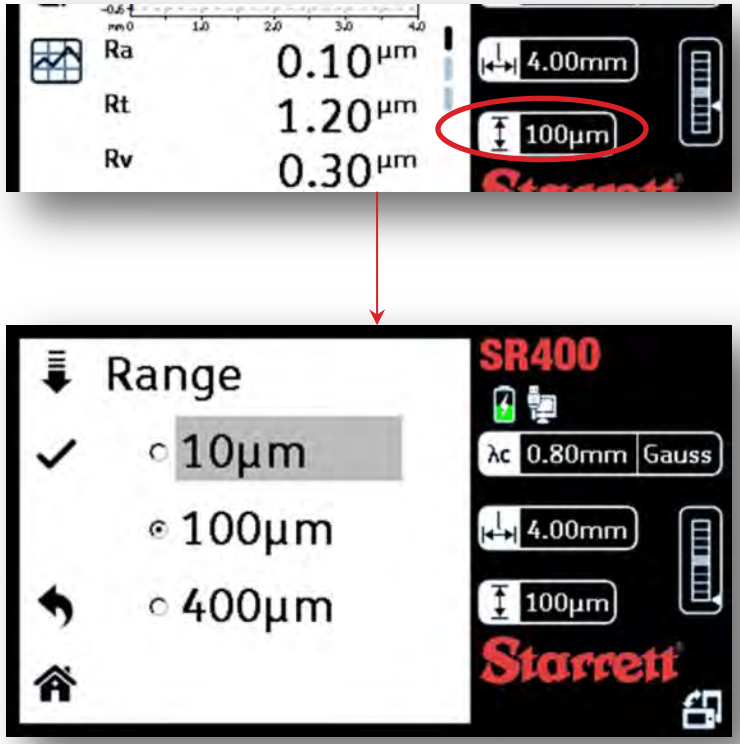
Measurement Length

Tap the “Measurement” icon to edit the length.



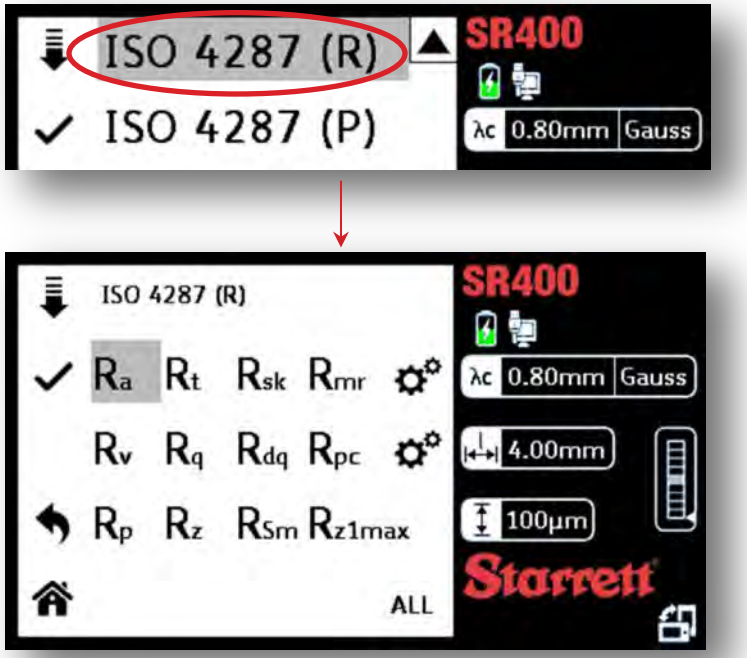
Range

Tap the “Range” icon to edit the range.



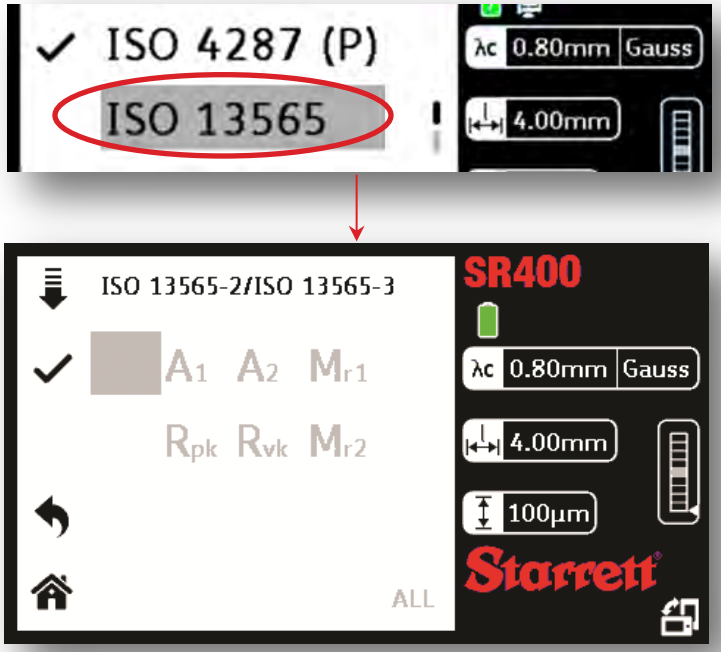
ISO 4287

Tap “ISO 4287” to select parameters.



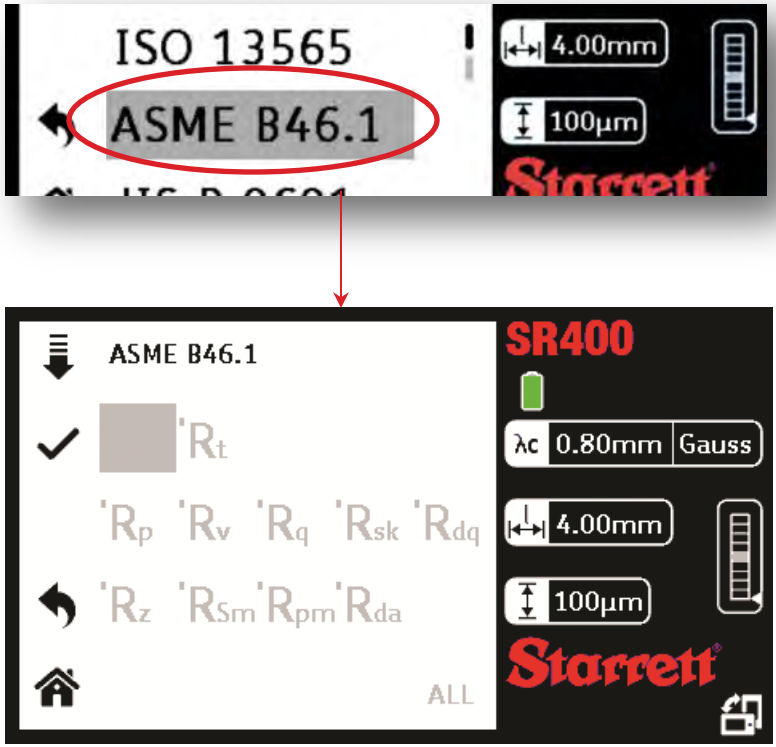
ISO 13565

Tap “ISO 13565” to select parameters.



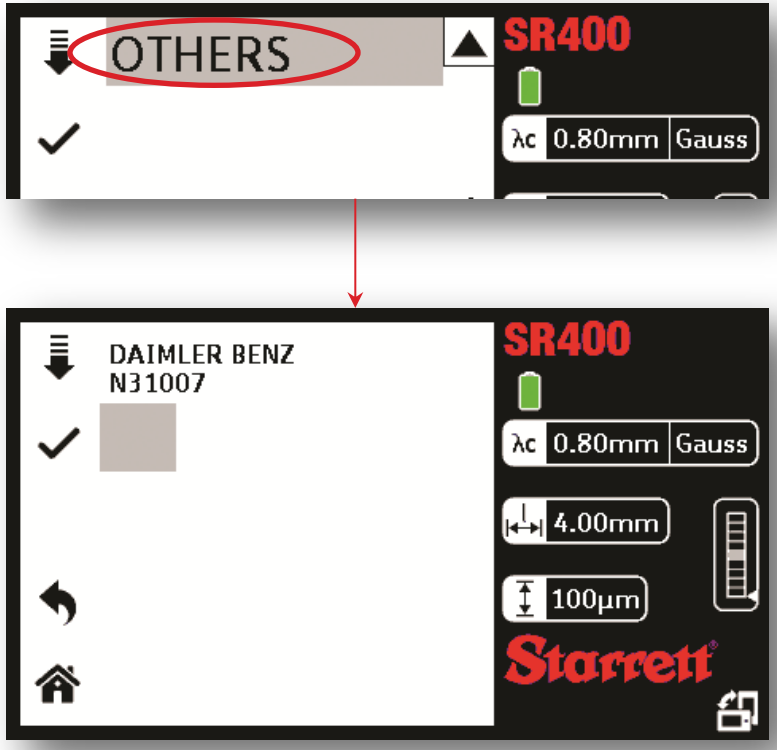
ASME B46.1

Tap “ASME B46.1” to select parameters.

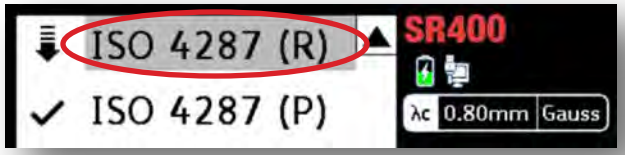


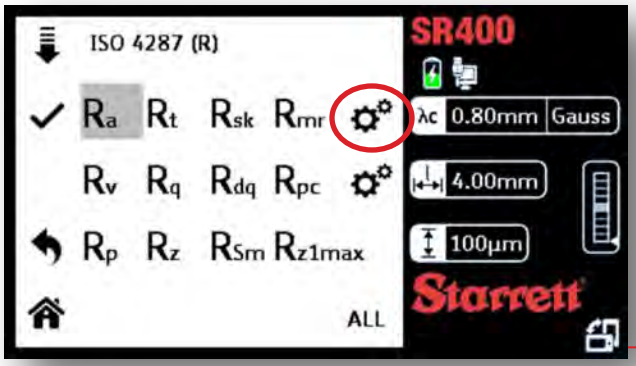
Others

Tap “Others” to select parameters.

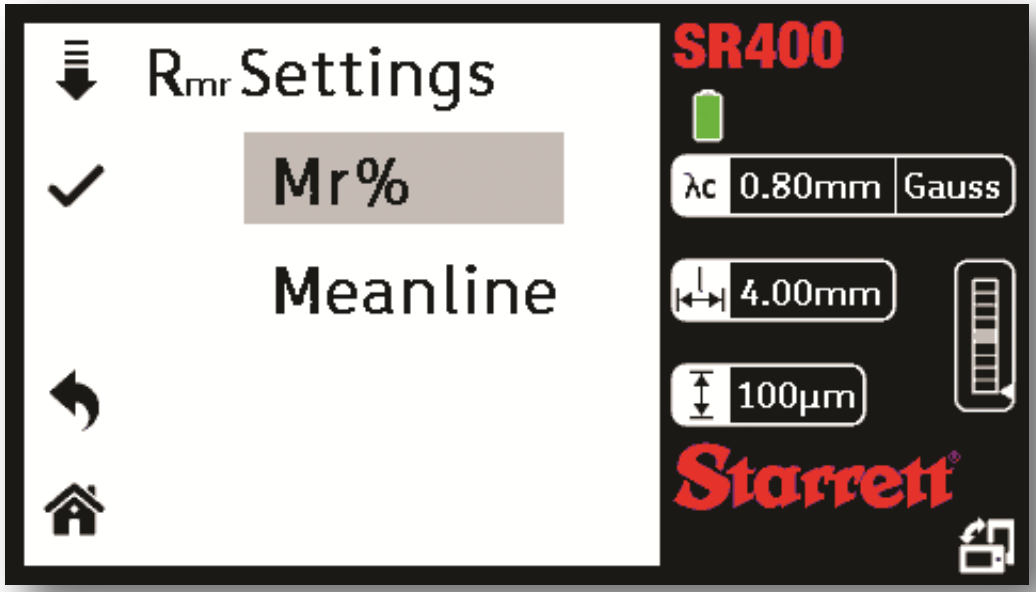


Parameter Setting – “Rmr”



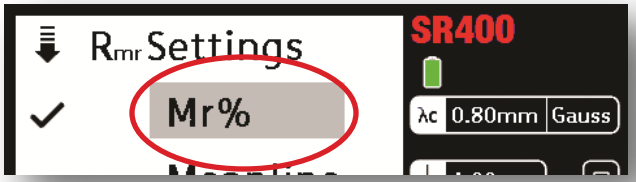


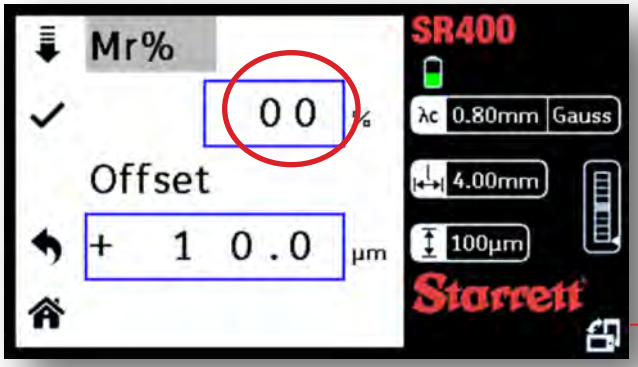
Tap “ISO 4287” and then the first “Settings” icon to open the “Rmr” settings.

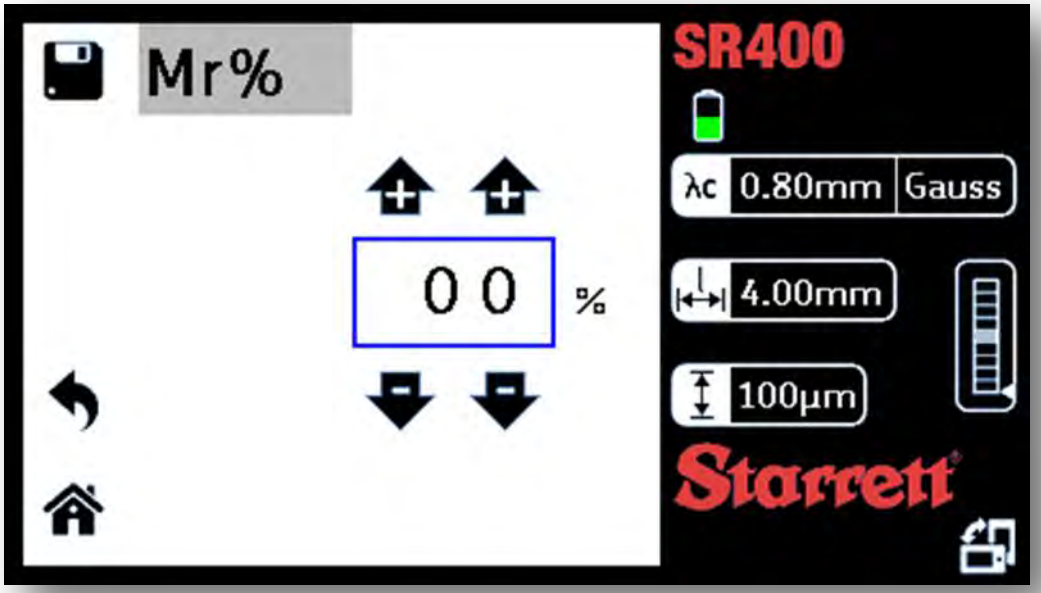


Parameter Setting – “Mr%”

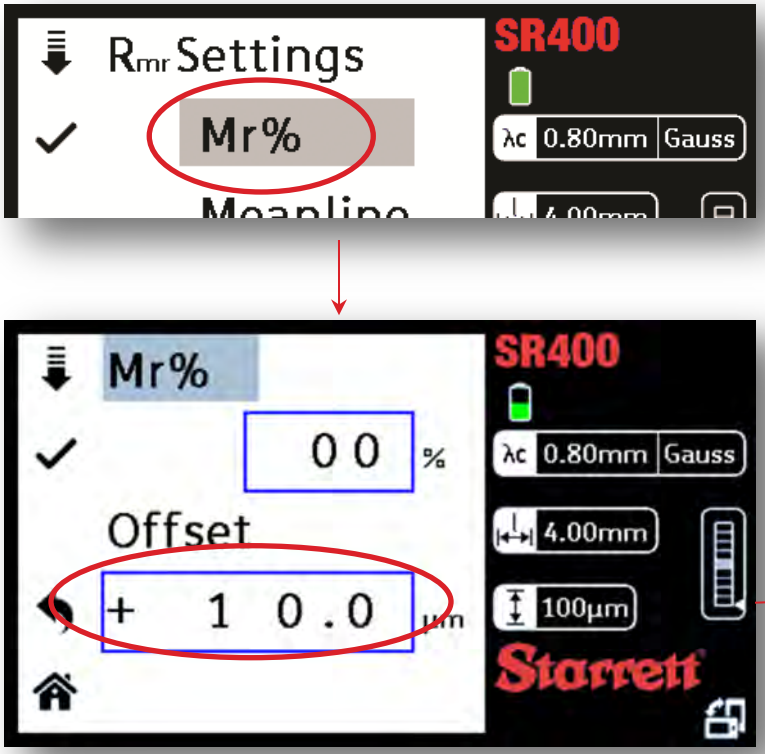
Tap “Mr%” and then the box where the number is displayed to adjust the setting.



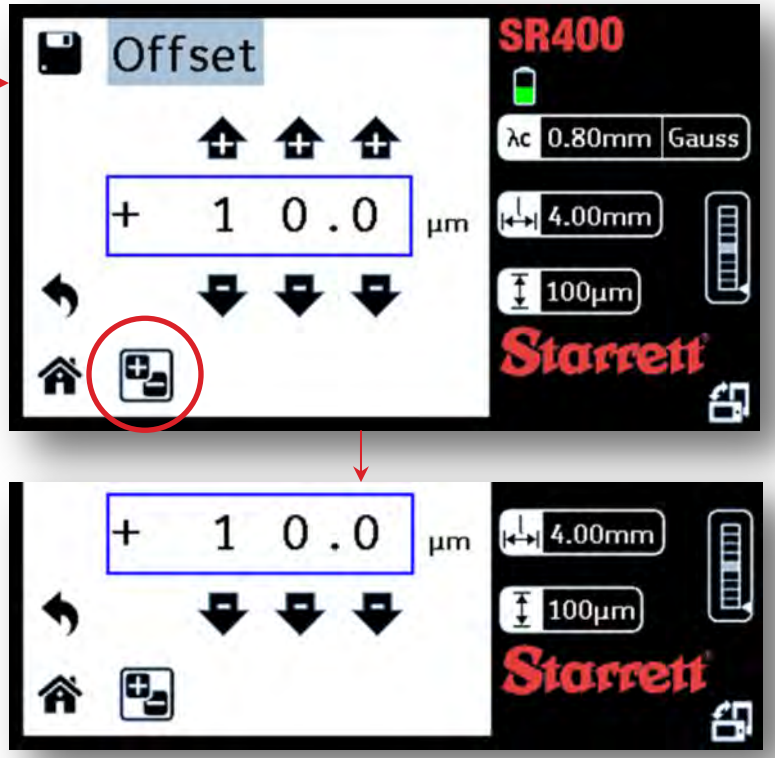




Parameter Setting – “Mr%”



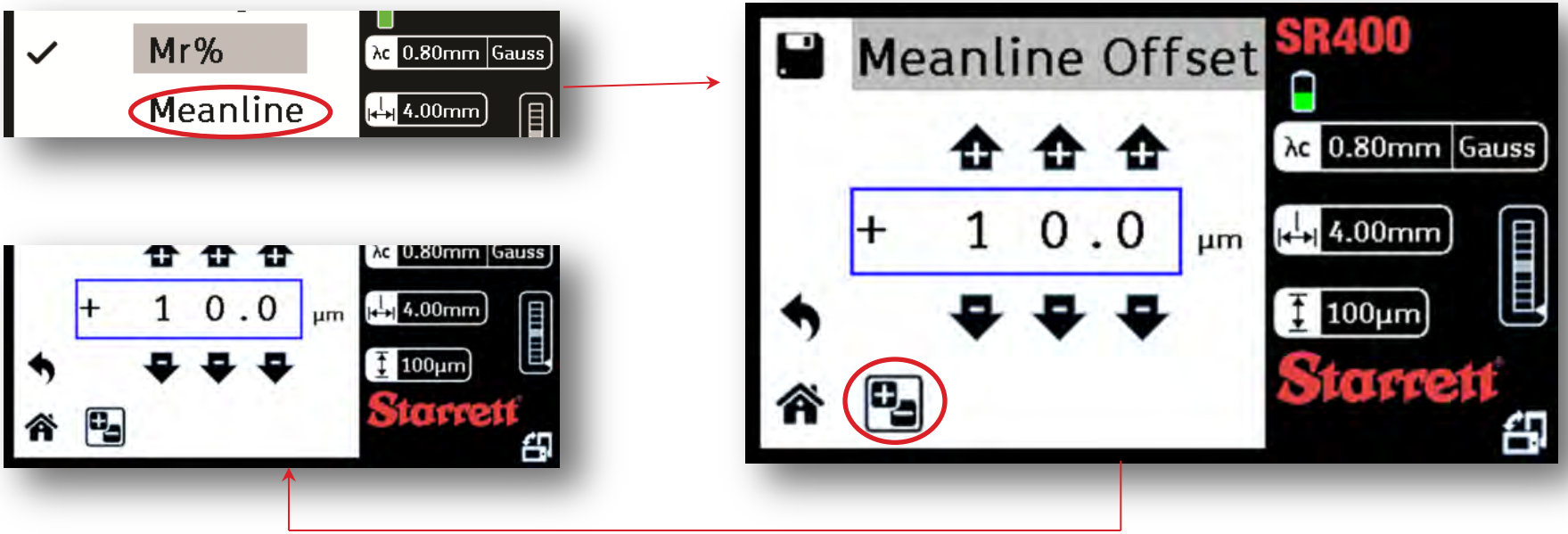
Tap “Mr%” and then the “Offset” box to adjust the setting.



Tap “+/-” icon to select between positive and negative.

Parameter Setting – “Meanline”

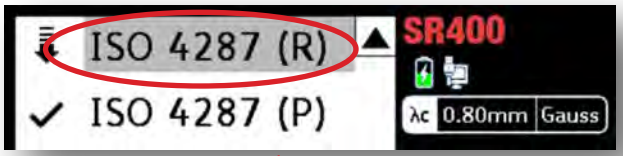
Tap “Meanline” to adjust the setting.

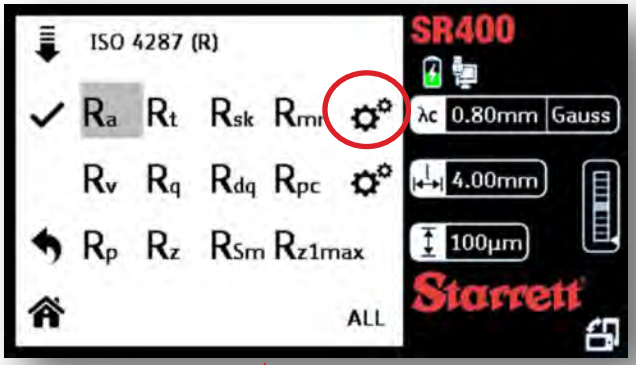


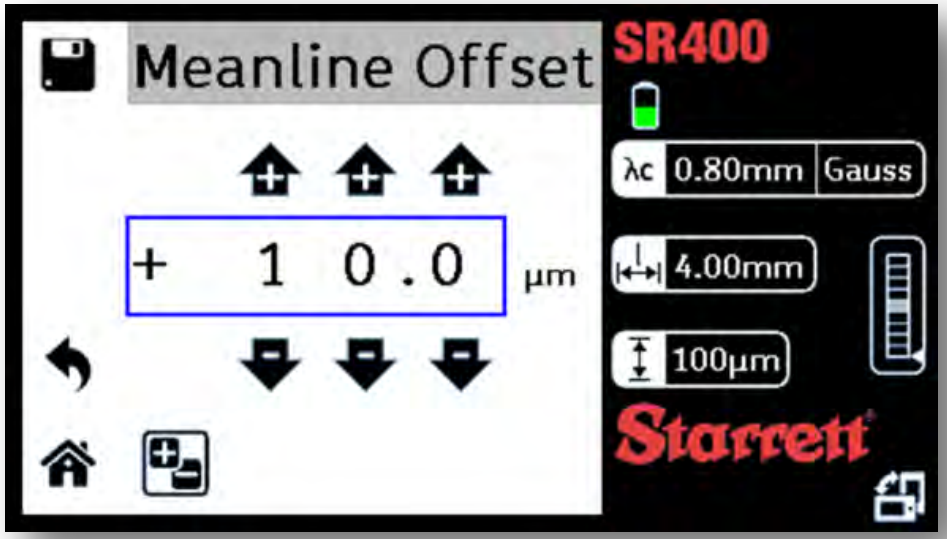
Tap “+/-” icon to select between positive and negative.

Parameter Setting – “Rpc”

Tap “ISO 4287” and then the second “Settings icon to adjust the “Rcp Bandwidth”.

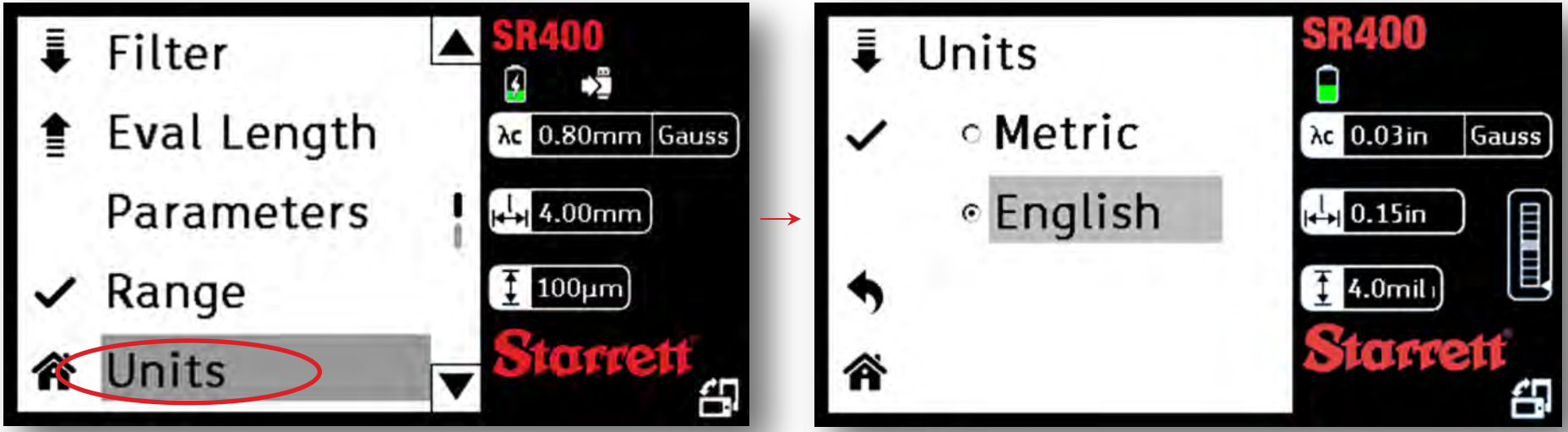






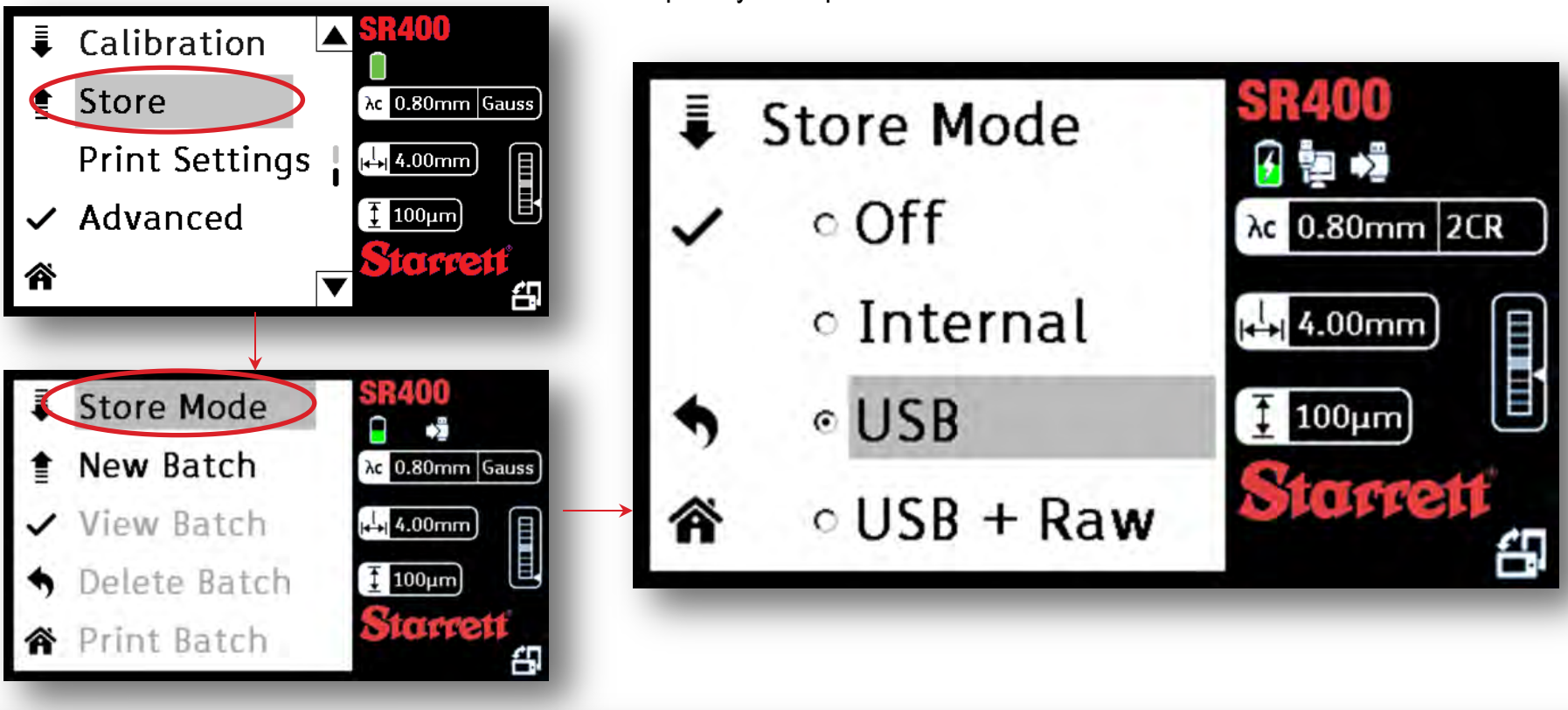
Units

Tap “Units” to select between “Metric” and “English”.



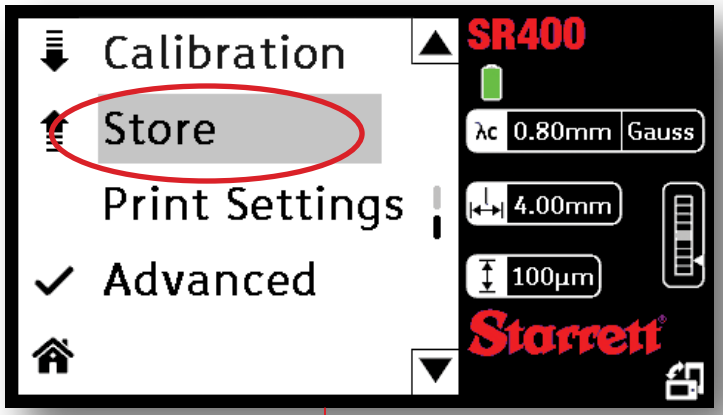
Storage

Tap “Store” and then “Store Mode” to select which storage option you require.



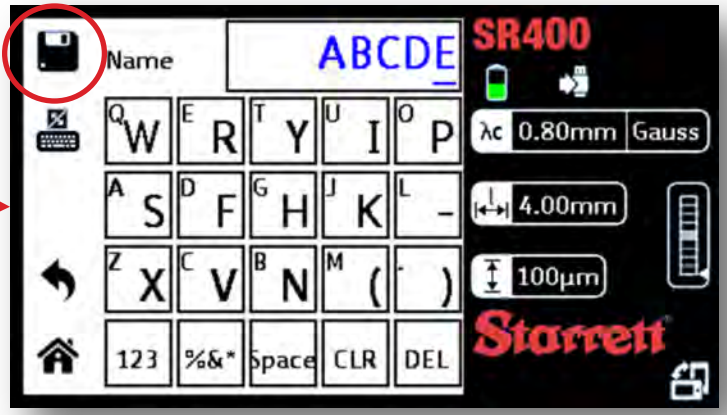
New Batch

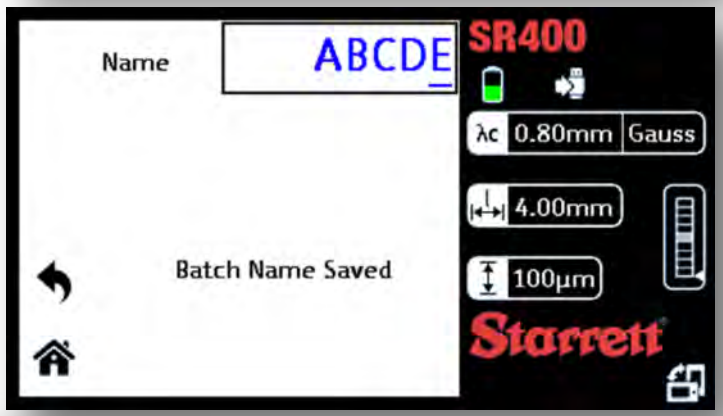
Tap “Store” and then “New Batch” to create a new batch.



Enter a “Batch Name” and tap “Save”

- The Name must be 5 digits or less.

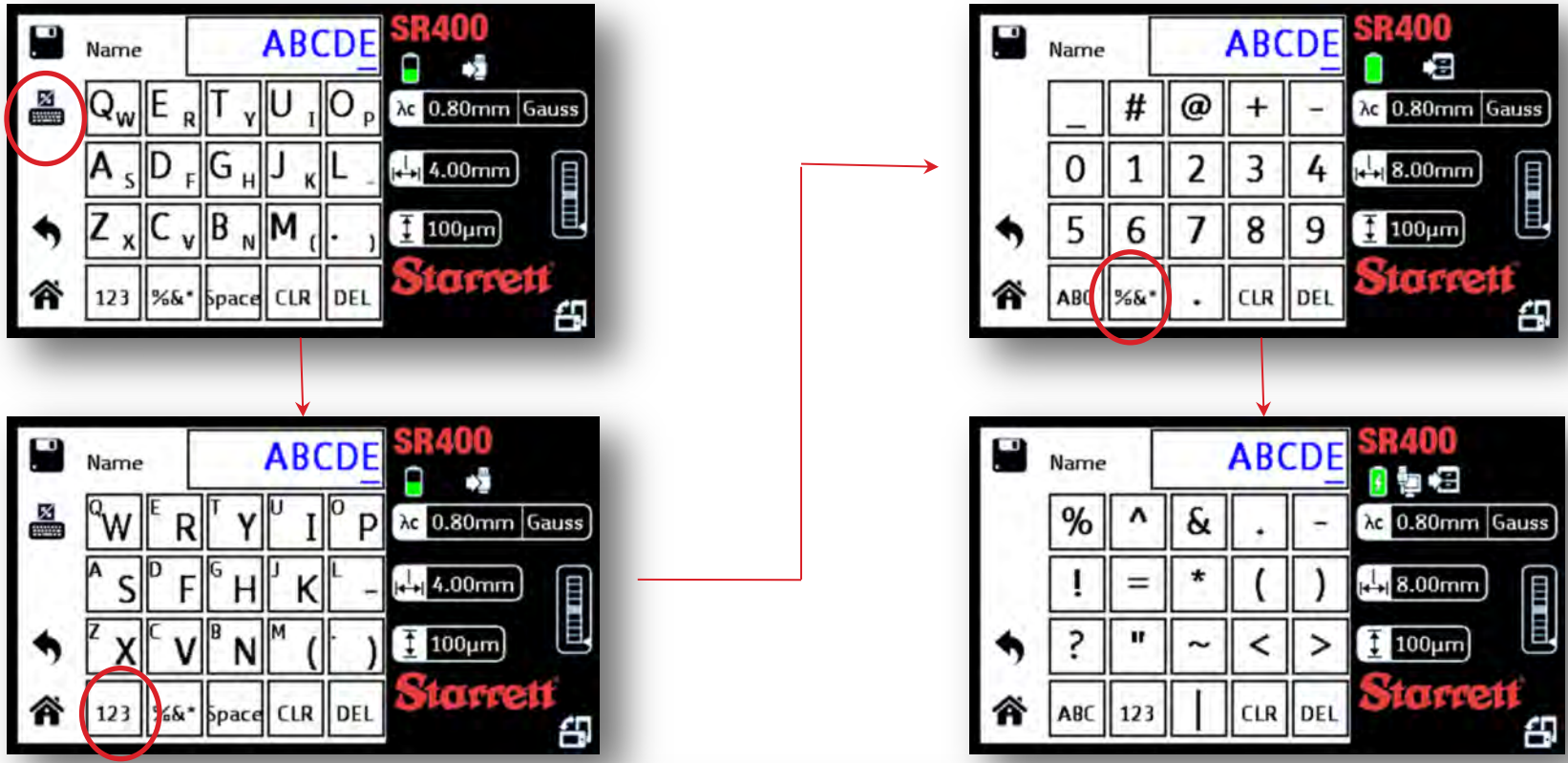




Keyboard

Tap “Keyboard” icon to switch between the two keyboard values.

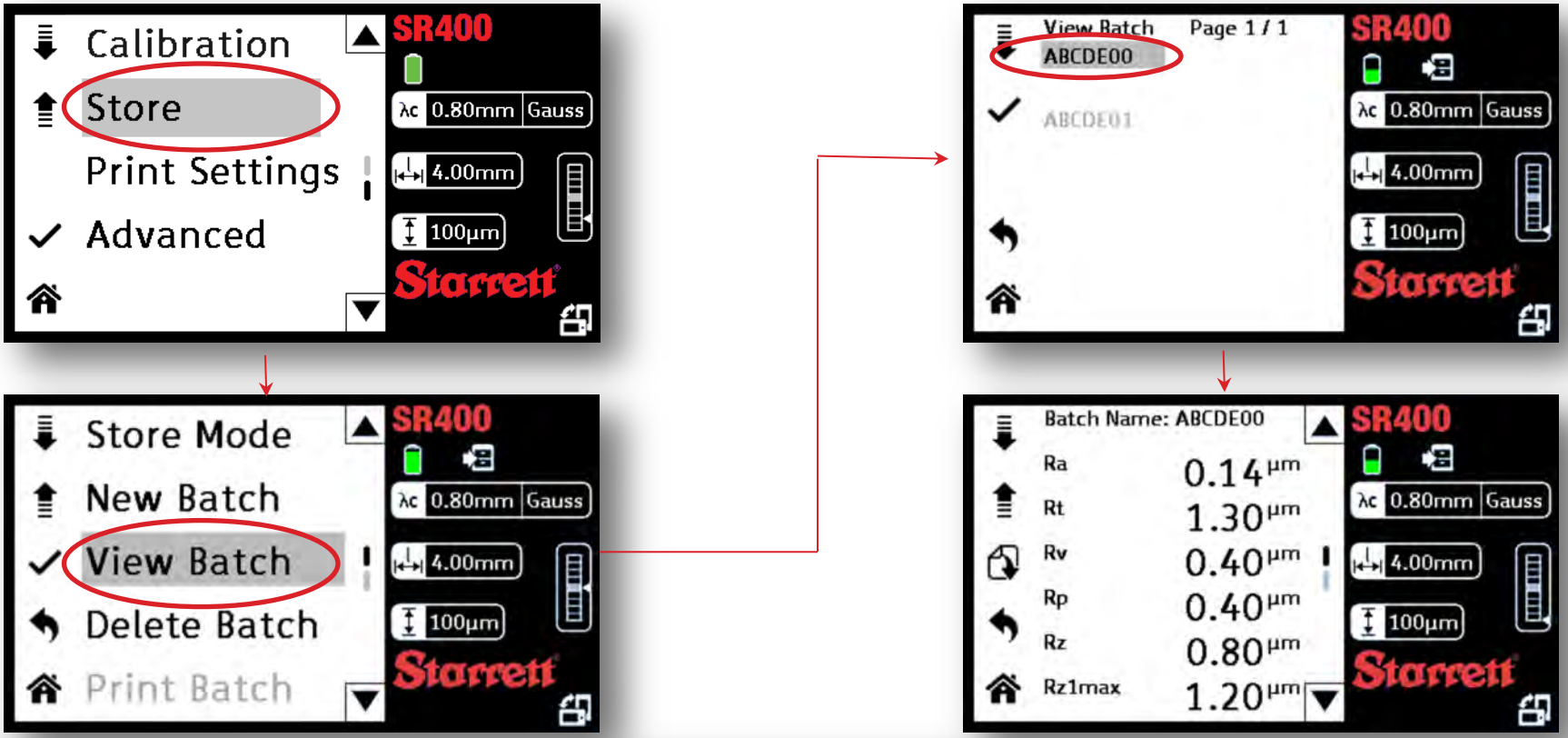
Tap “Number” or “Symbol” icons to enter either numbers or symbols in the “Batch Name”.



View Batch

Tap “Store” and then “View Batch” to view all saved data.

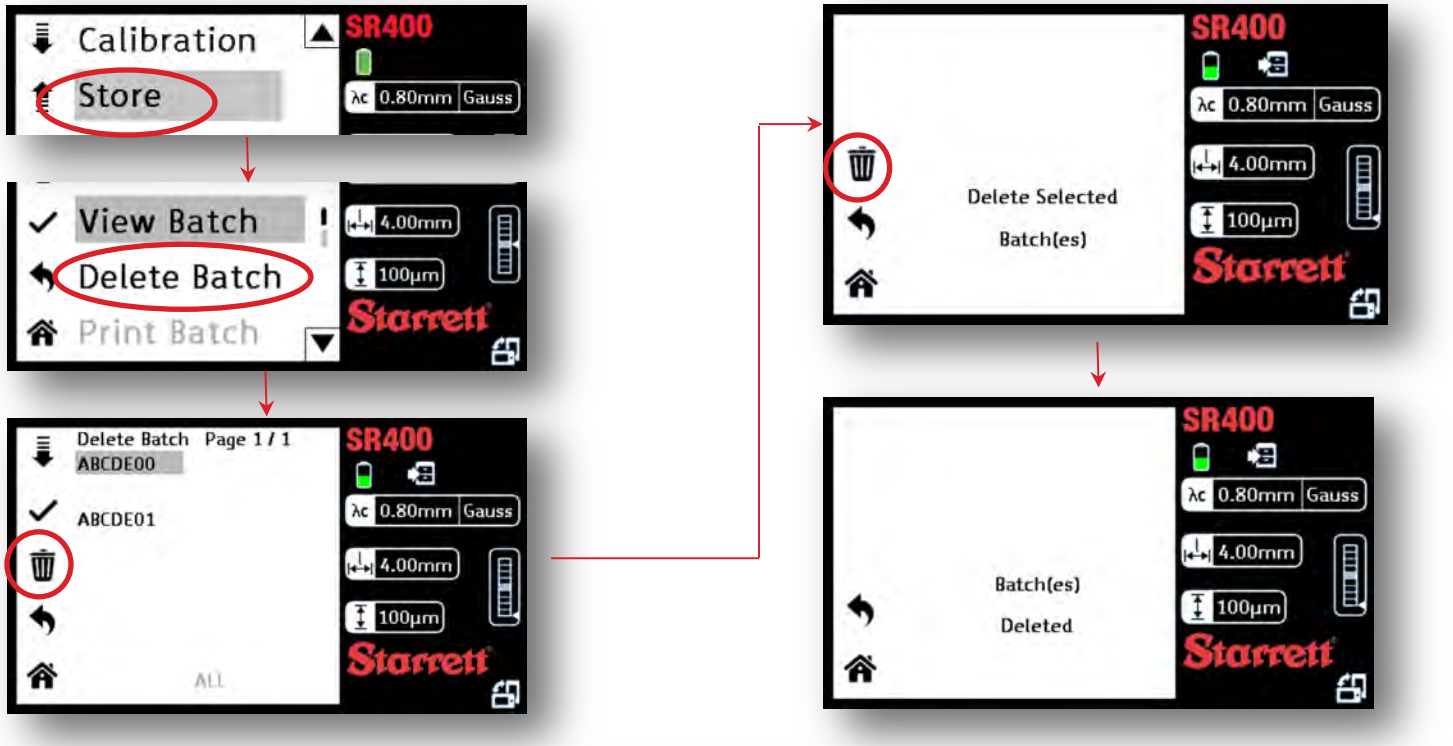
Tap the “Batch Name” to view the data in more detail.



Delete Batch

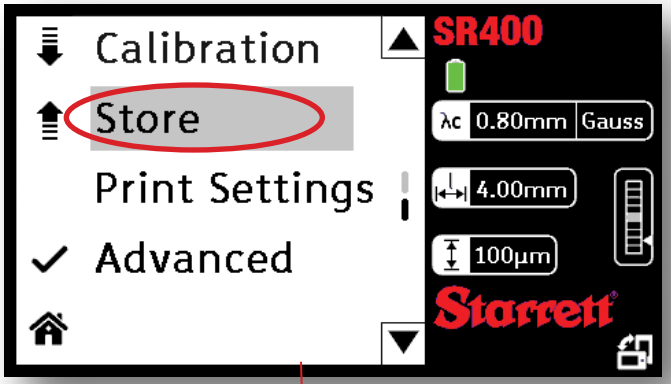
Tap “Store” and then “Delete Batch” and then select a batch.

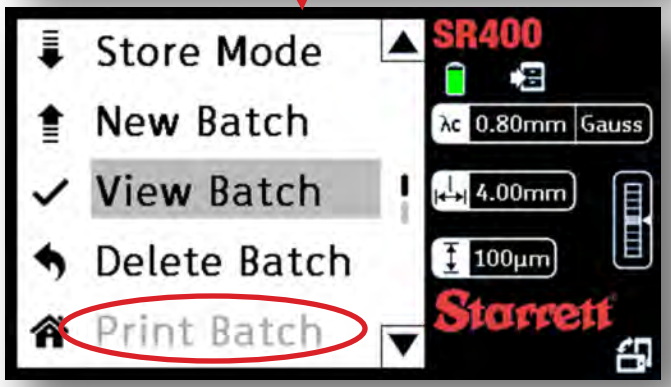
Tap the “Trash” icon to delete the selected batch. Tap the “Trash” icon again to confirm the deletion of the batch.



Print Batch

Tap “Store” and then “Print Batch” to view all saved batches.

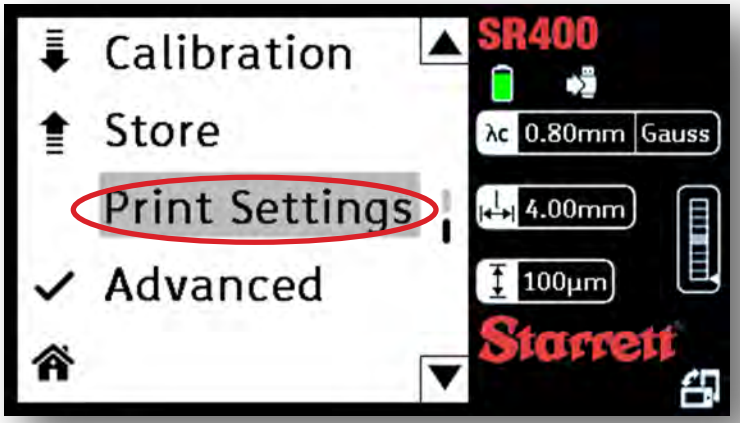


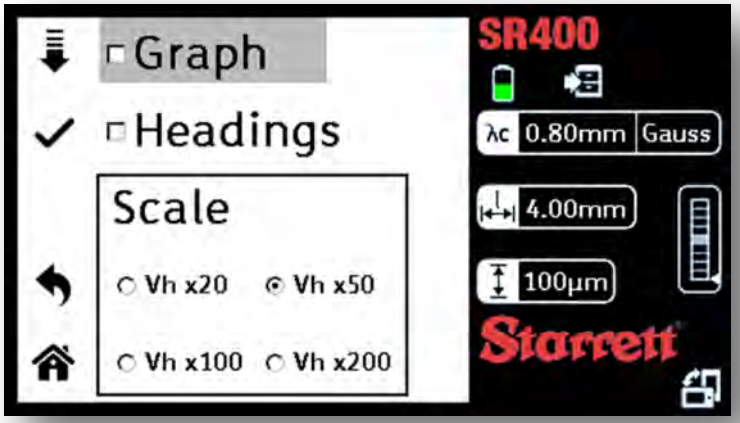


Tap the “Batch Name” and then the “Print” icon to print the batch.

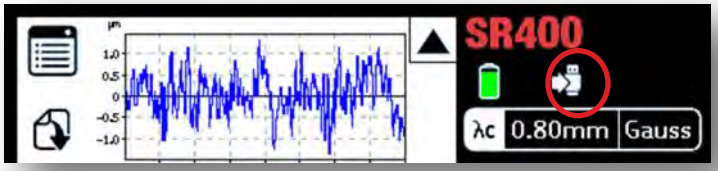
Print

Tap “Print Settings” to select your required printing options.

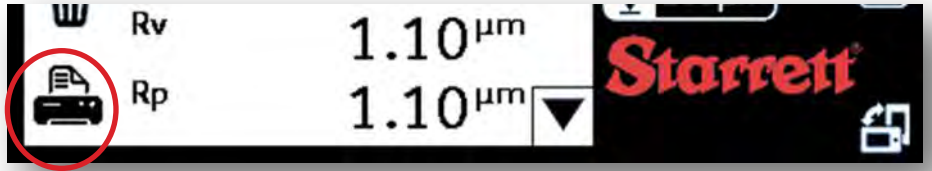


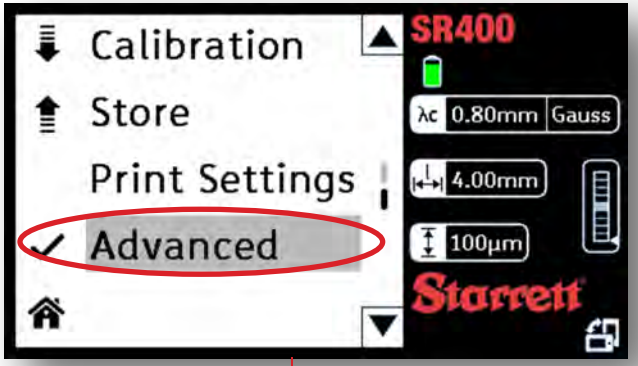


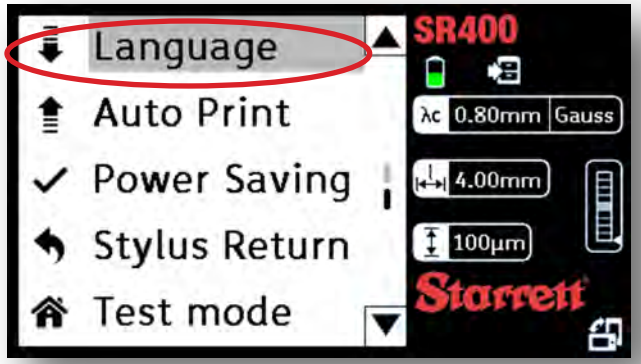
This icon shows that a printer is connected to the device.



Tap the “Printer” icon on the home screen to print the measurement.

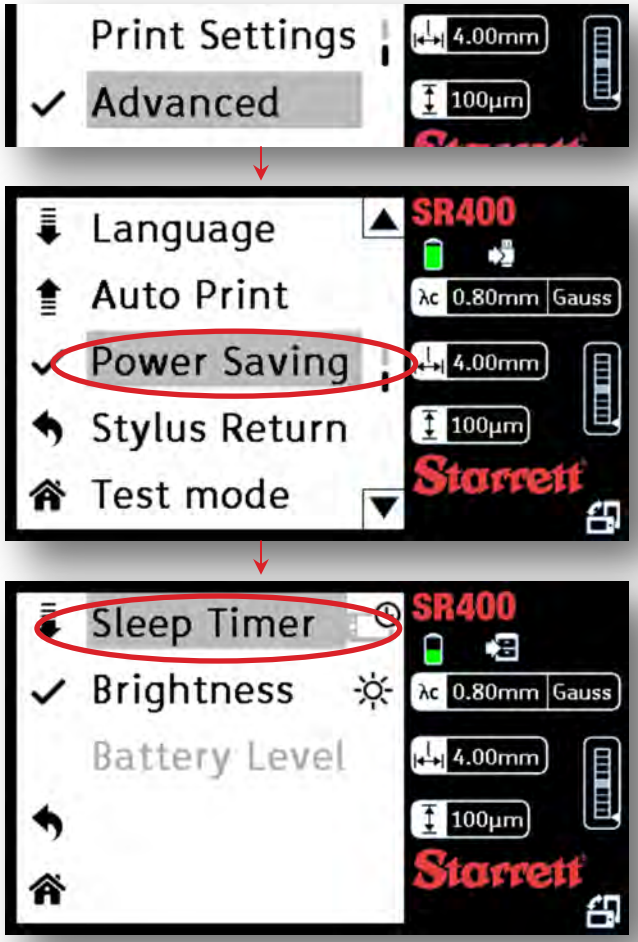






Language

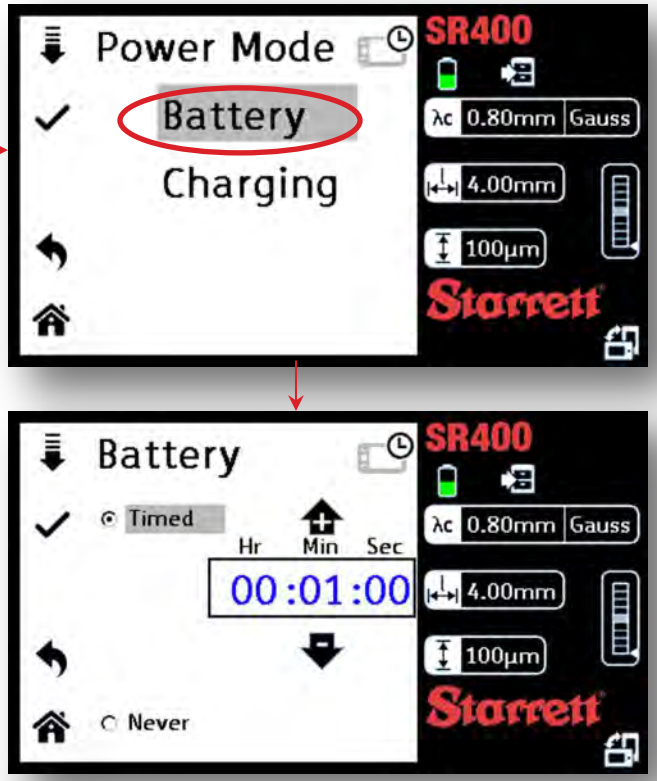
Tap “Advanced” and then “Language” to select which language you require.

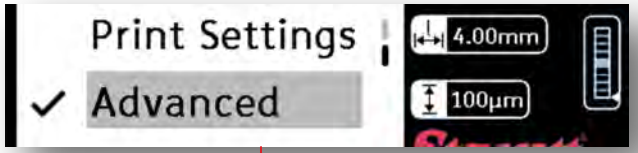


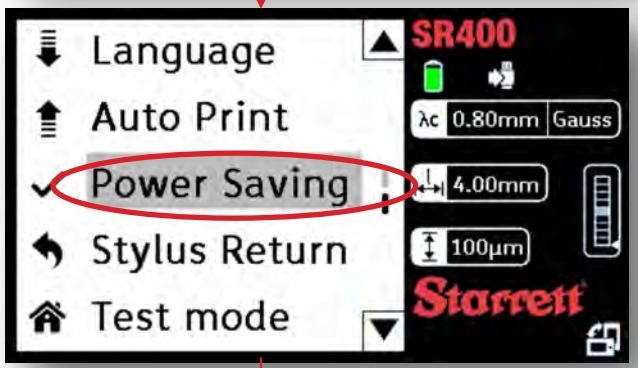
Sleep Timer - Battery

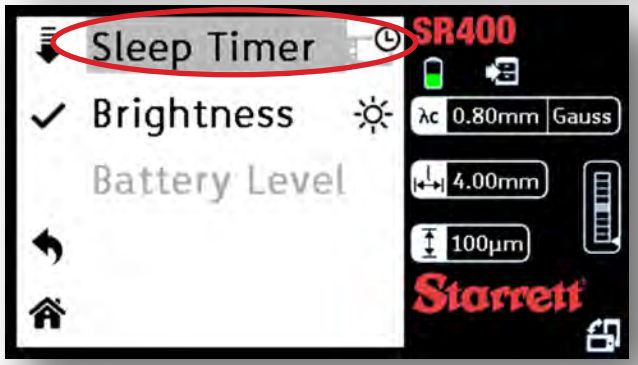
Tap “Advanced then “Power Saving” and then “Sleep Timer”.

Select “Battery” and set a time as the battery sleep timer.





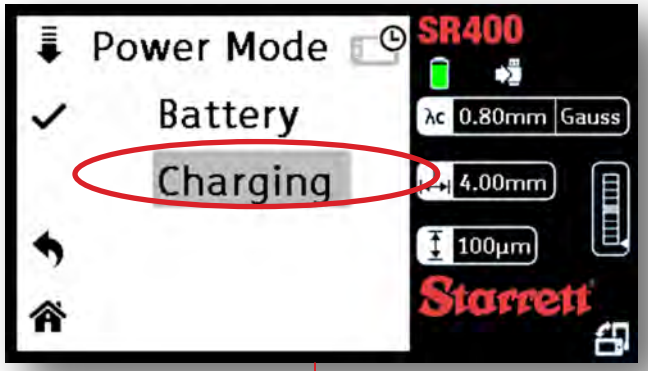




Sleep Timer - Charging

Tap “Advanced” then “Power Saving” and then “Sleep Timer”.

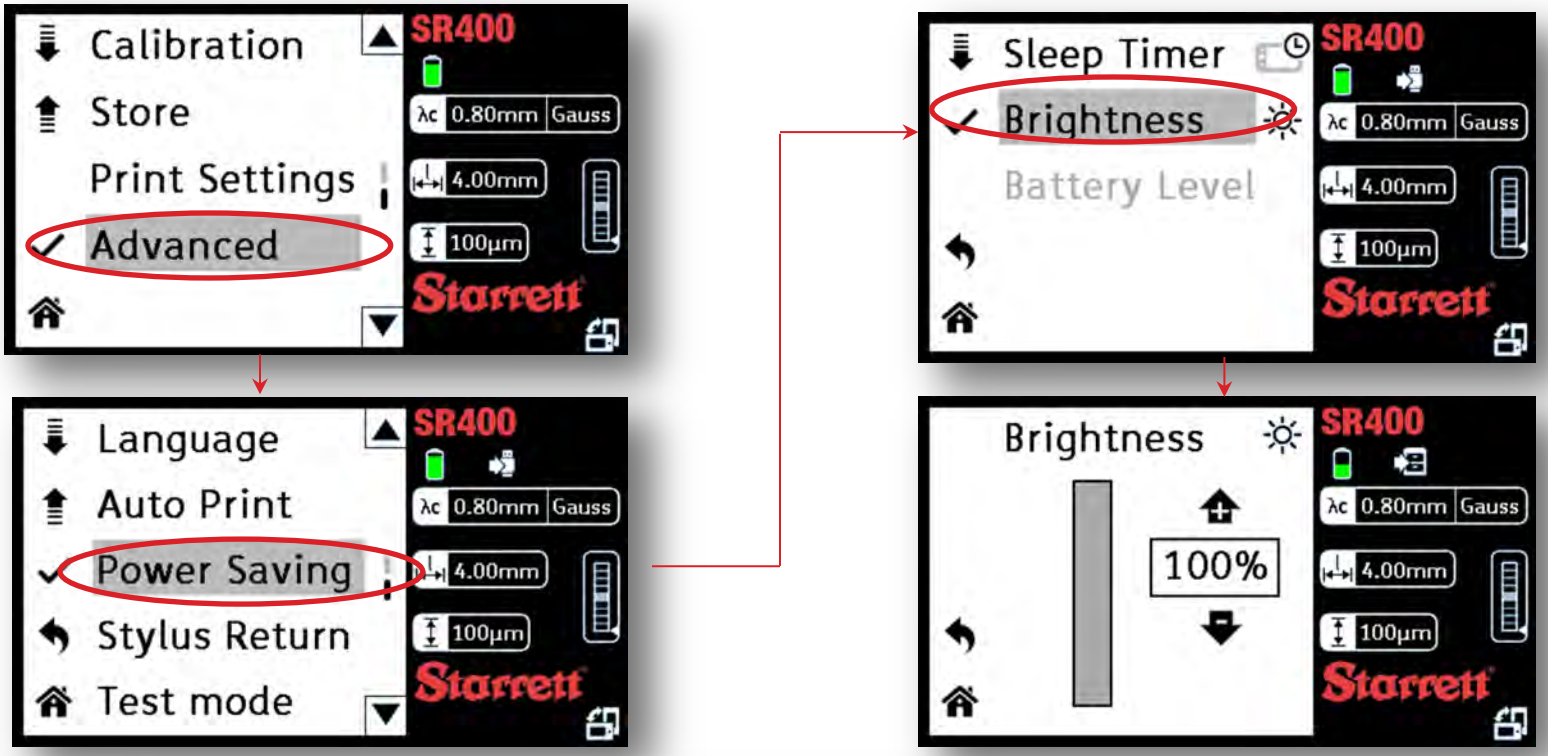
Select “Charging” and set a time as the charging sleep timer.



Brightness

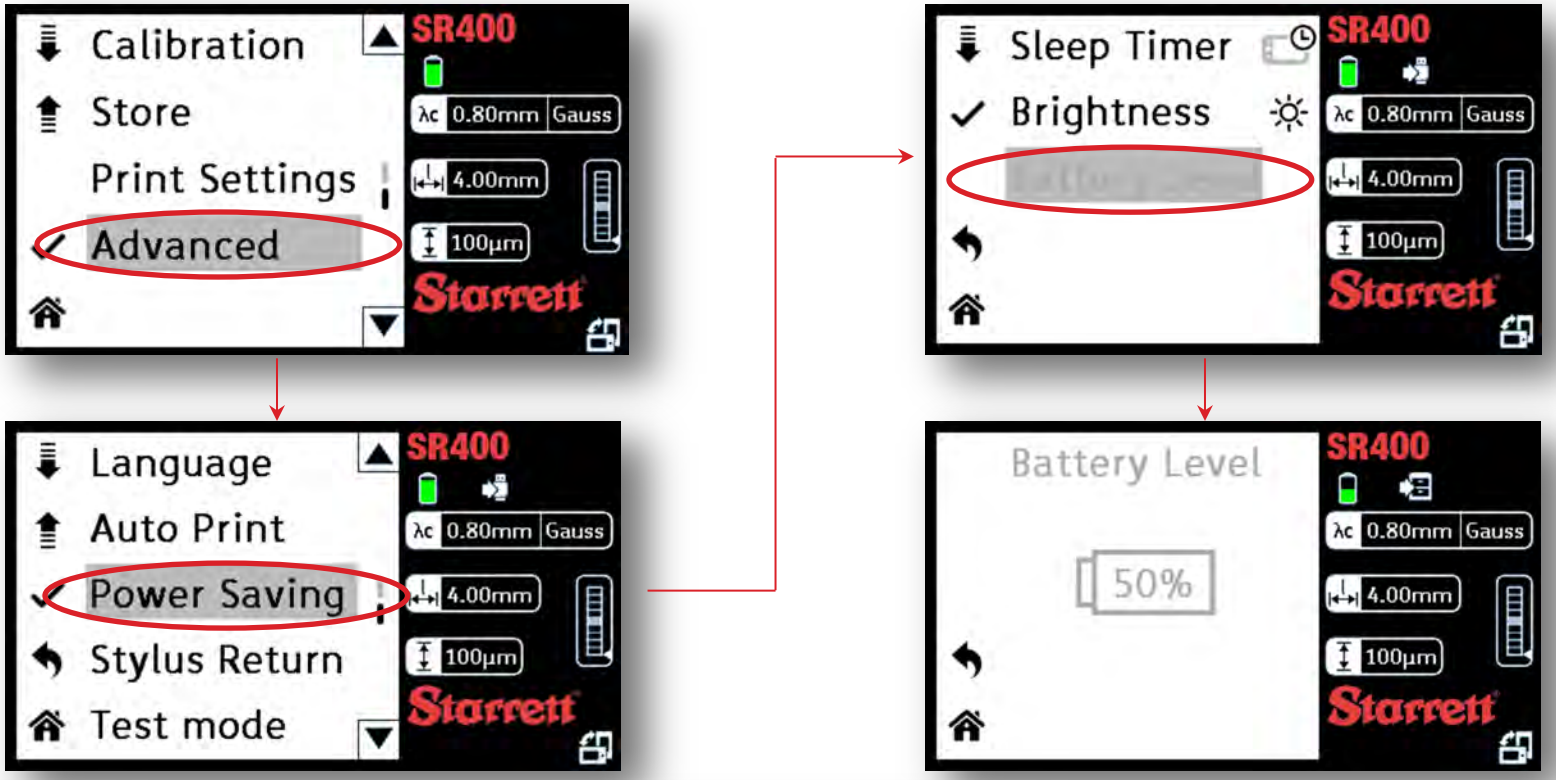
Tap “Advanced” then “Power Saving” and then select “Brightness”.

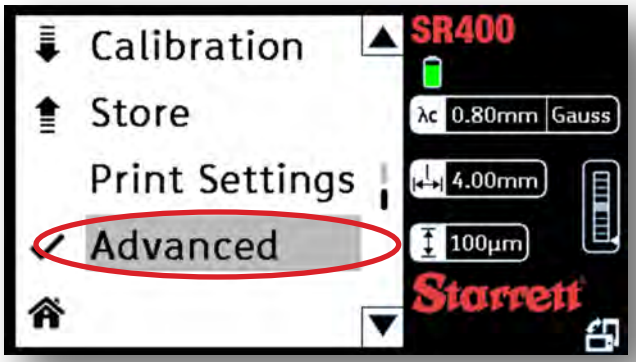
Set the brightness to the percentage you require.

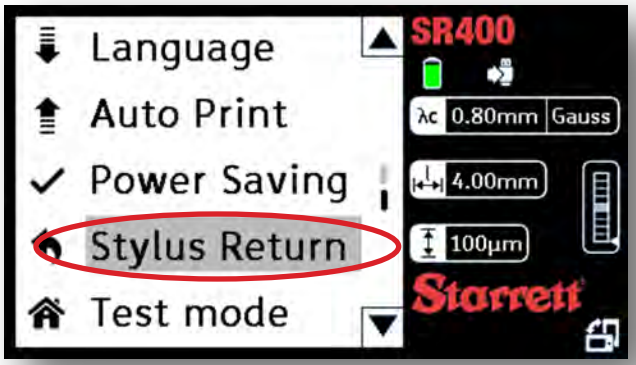


Battery Level

Tap “Advanced” then “Power Saving” and then select “Battery Level” to view the current battery level of your device.

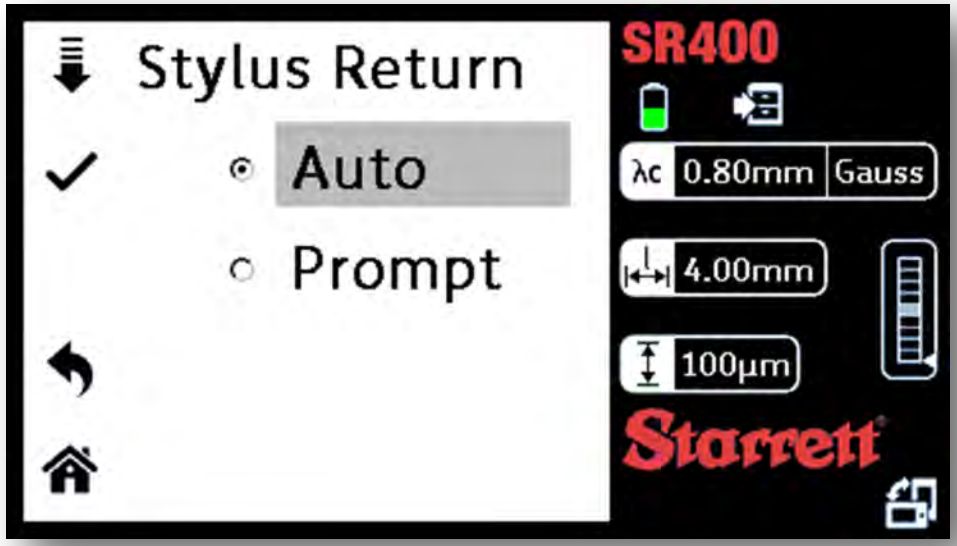


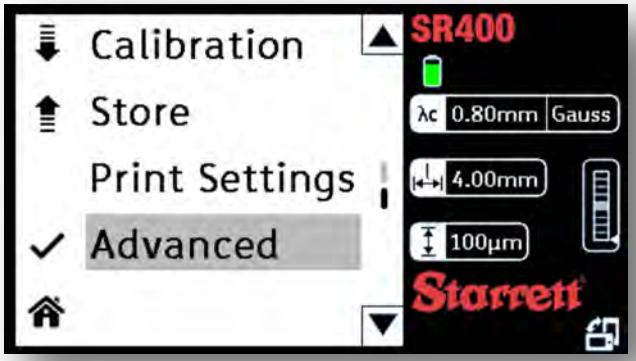


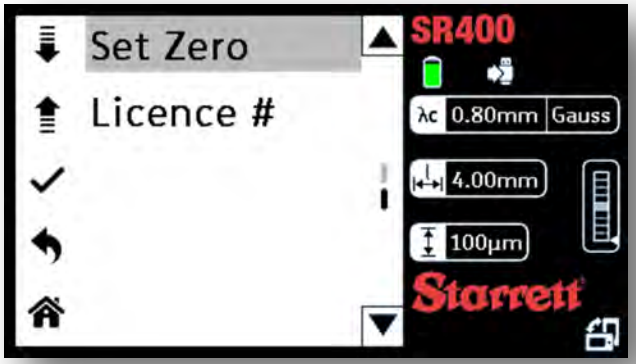


Stylus Return

Tap “Advanced” and then “Stylus Return” to select which option you require.

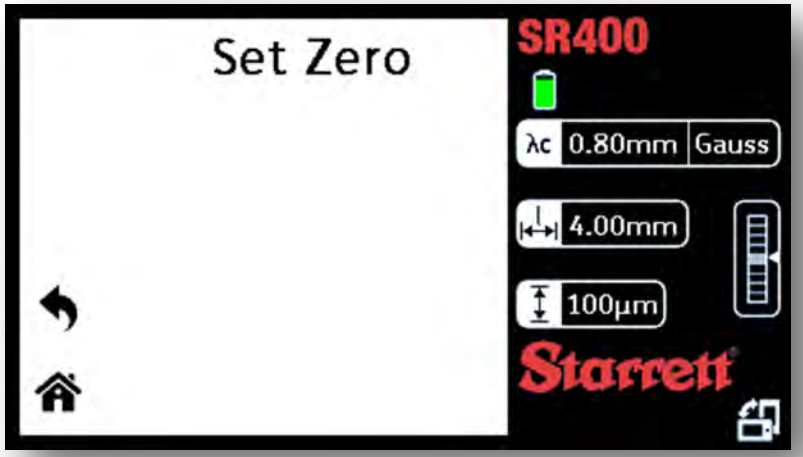






Set Zero

Tap “Advanced” and then “Set Zero”. Then place unit on a flat surface and press measure. This will center the gage range.



SR300 AND SR400 - SURFACE ROUGHNESS TESTER

USER GUIDE

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